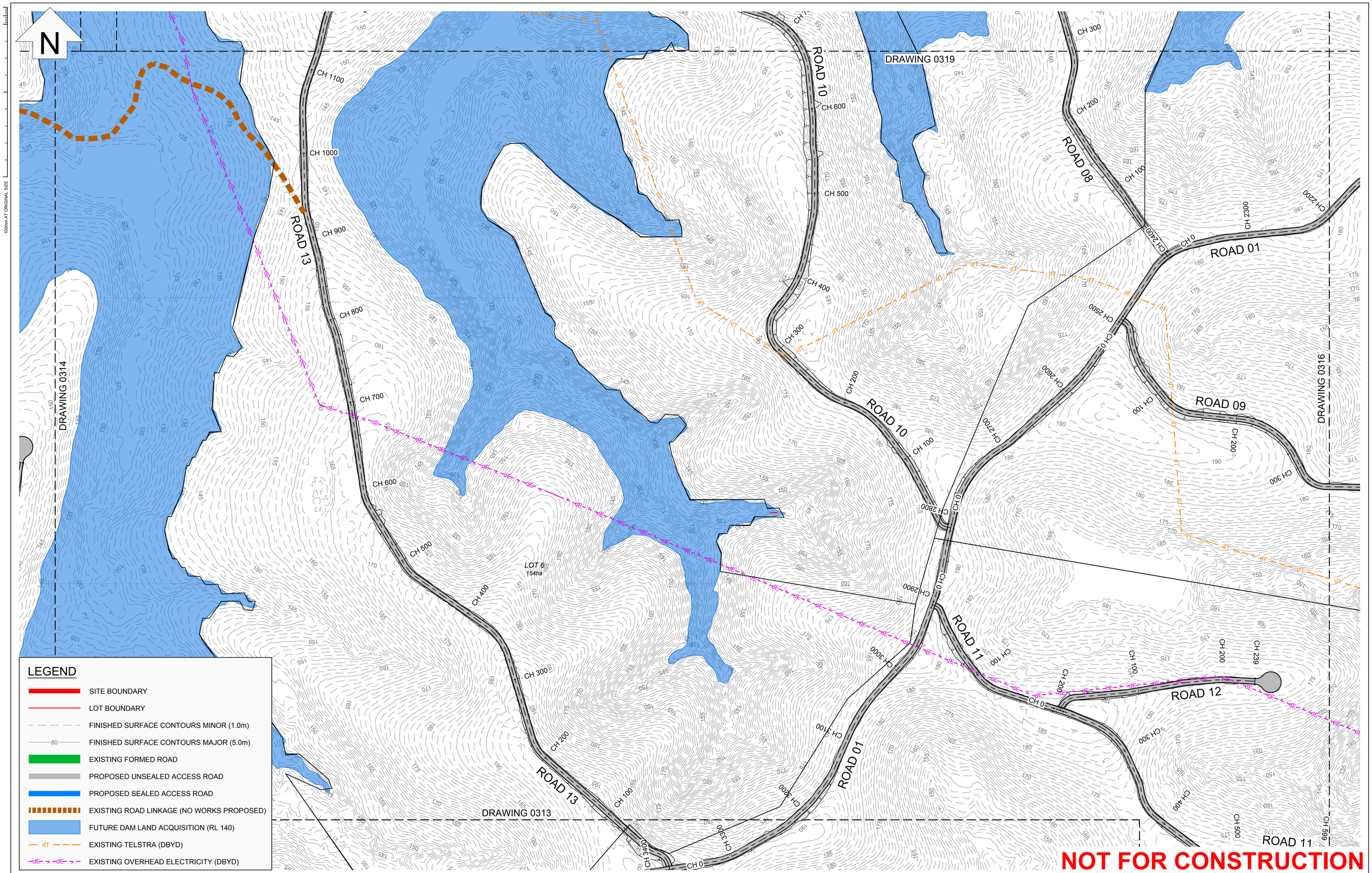

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120

Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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CLIENT:
NCV ENTERPRISES PTY LTD

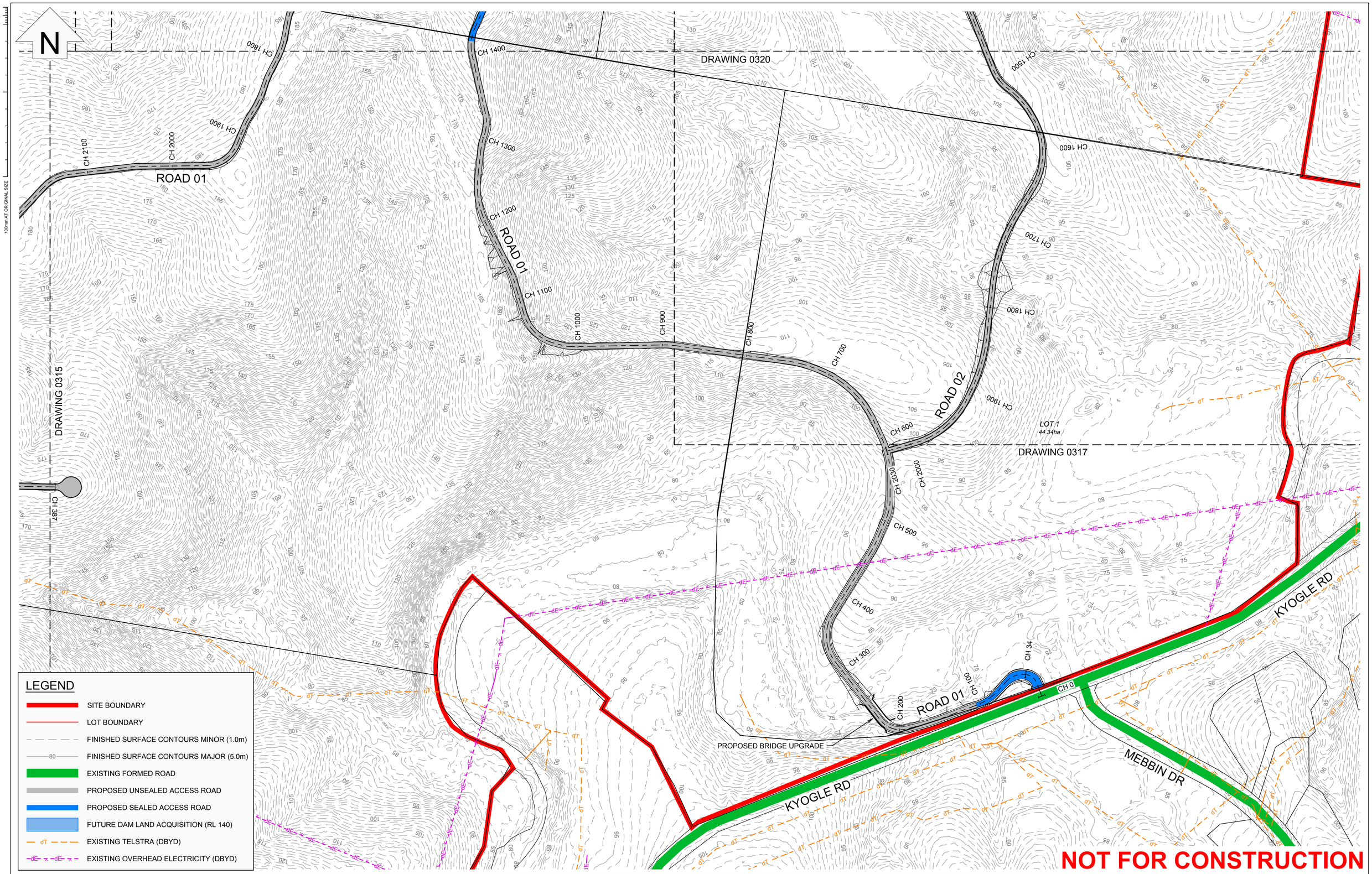
PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD PLAN
SHEET 5 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0315	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0310 ROADS KEY PLAN.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:17:30 PM



REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120

Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD PLAN
SHEET 6 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0316	C

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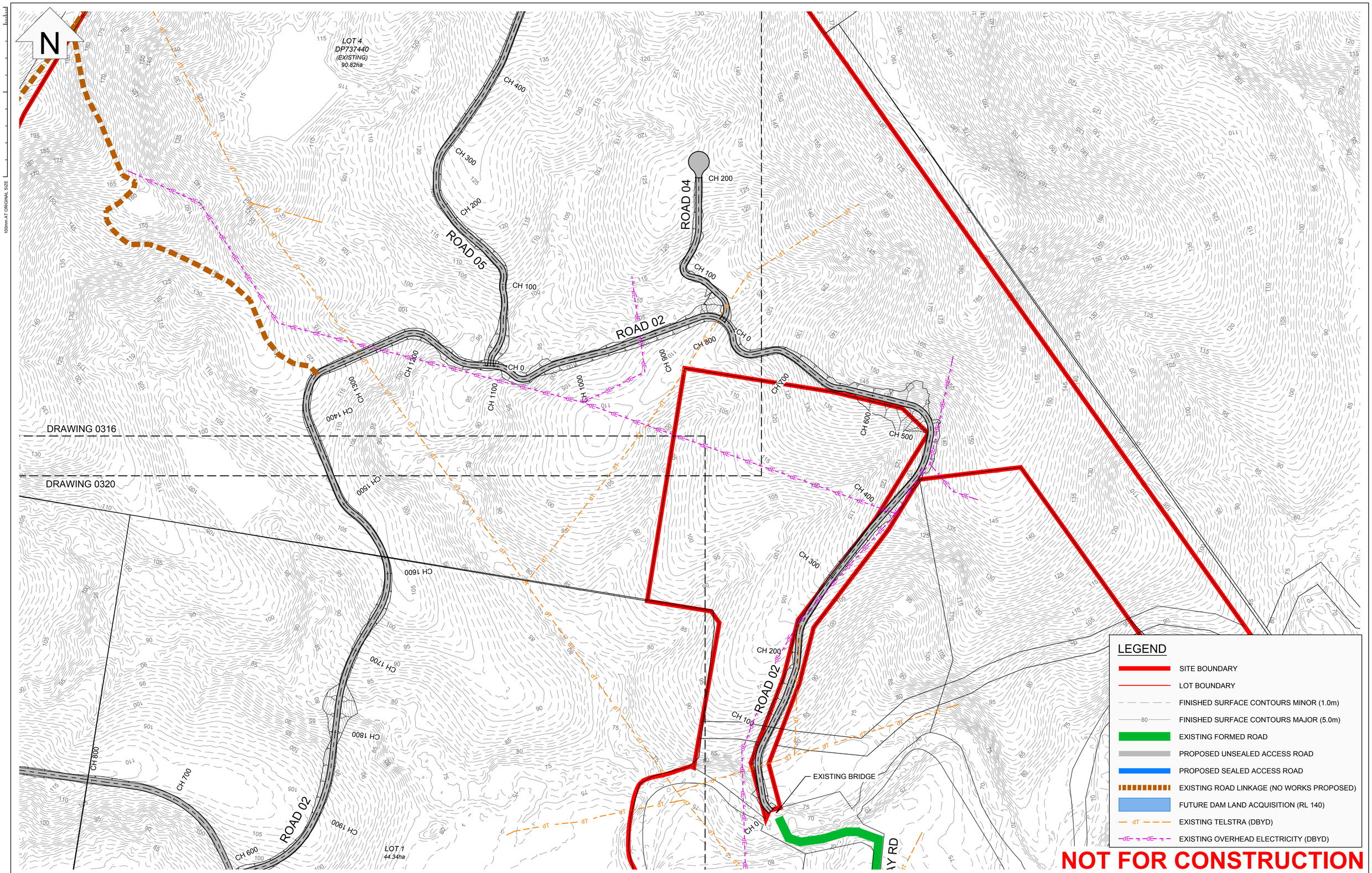

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120

Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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PROJECT:
NIGHTCAP VILLAGE

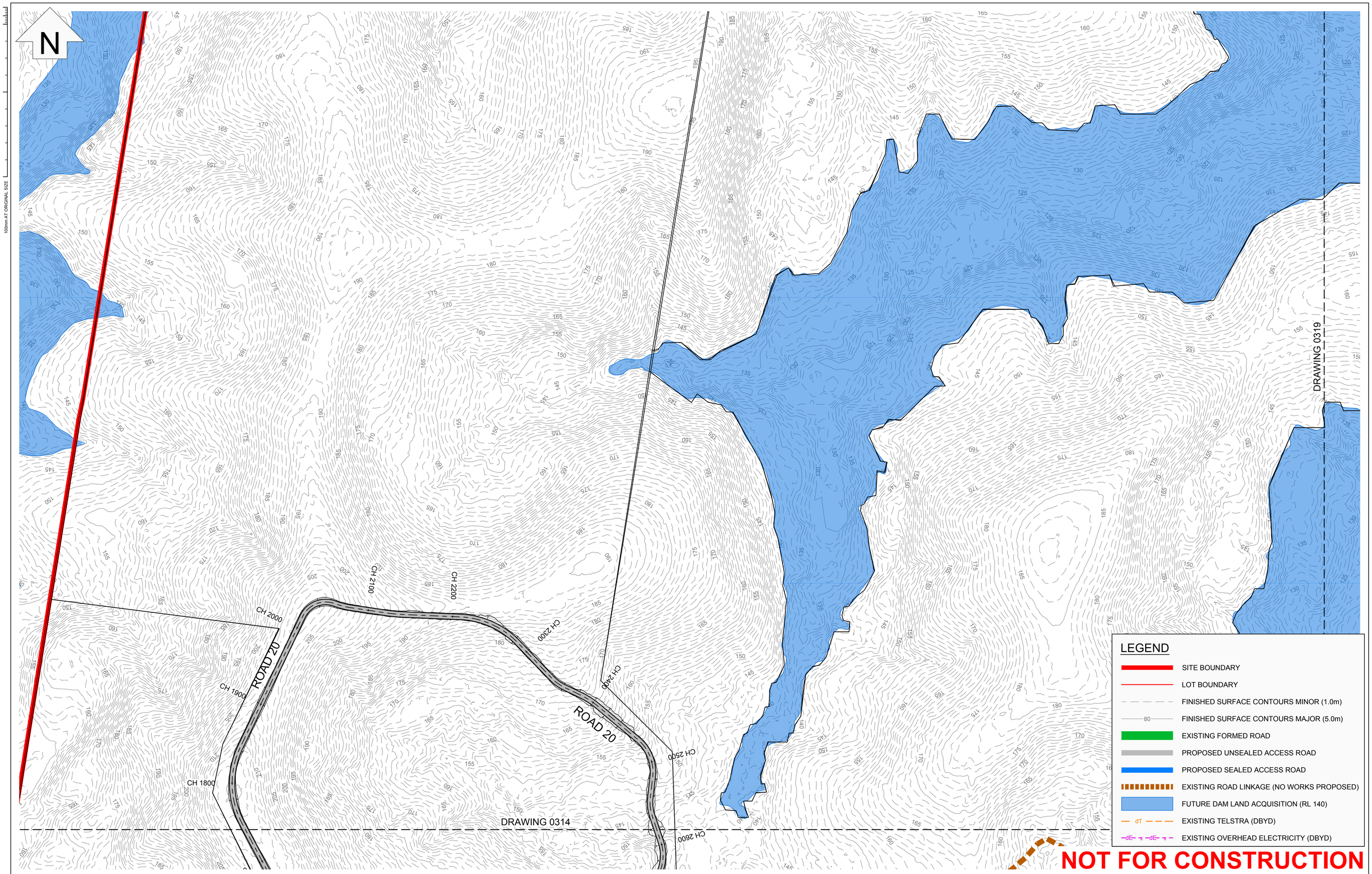
DRAWING TITLE:
ROAD PLAN
SHEET 7 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0317	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0310 ROADS KEY PLAN.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:18:15 PM

100mm AT ORIGINAL SIZE



REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120

Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD PLAN
SHEET 8 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0318	C

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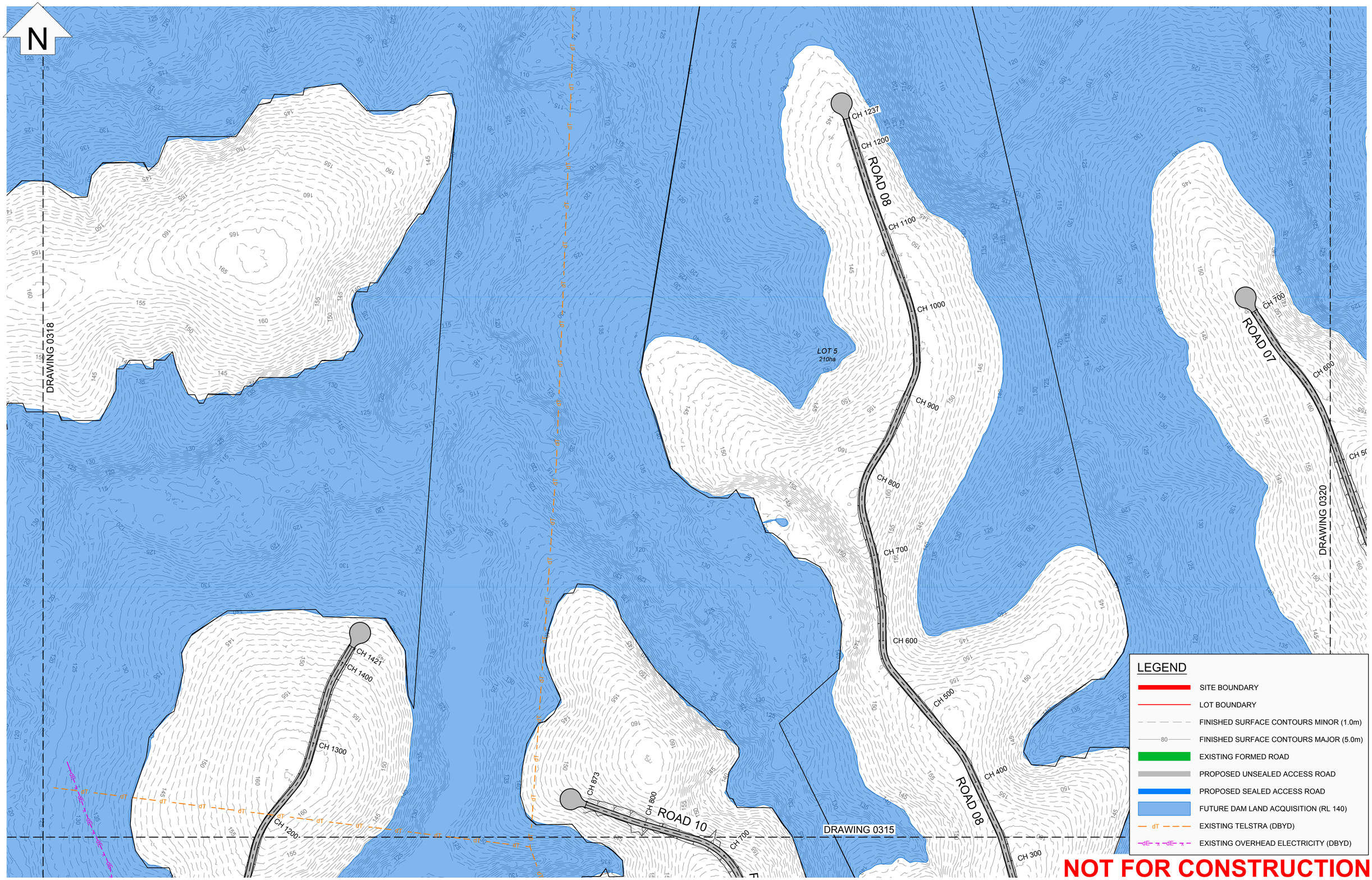

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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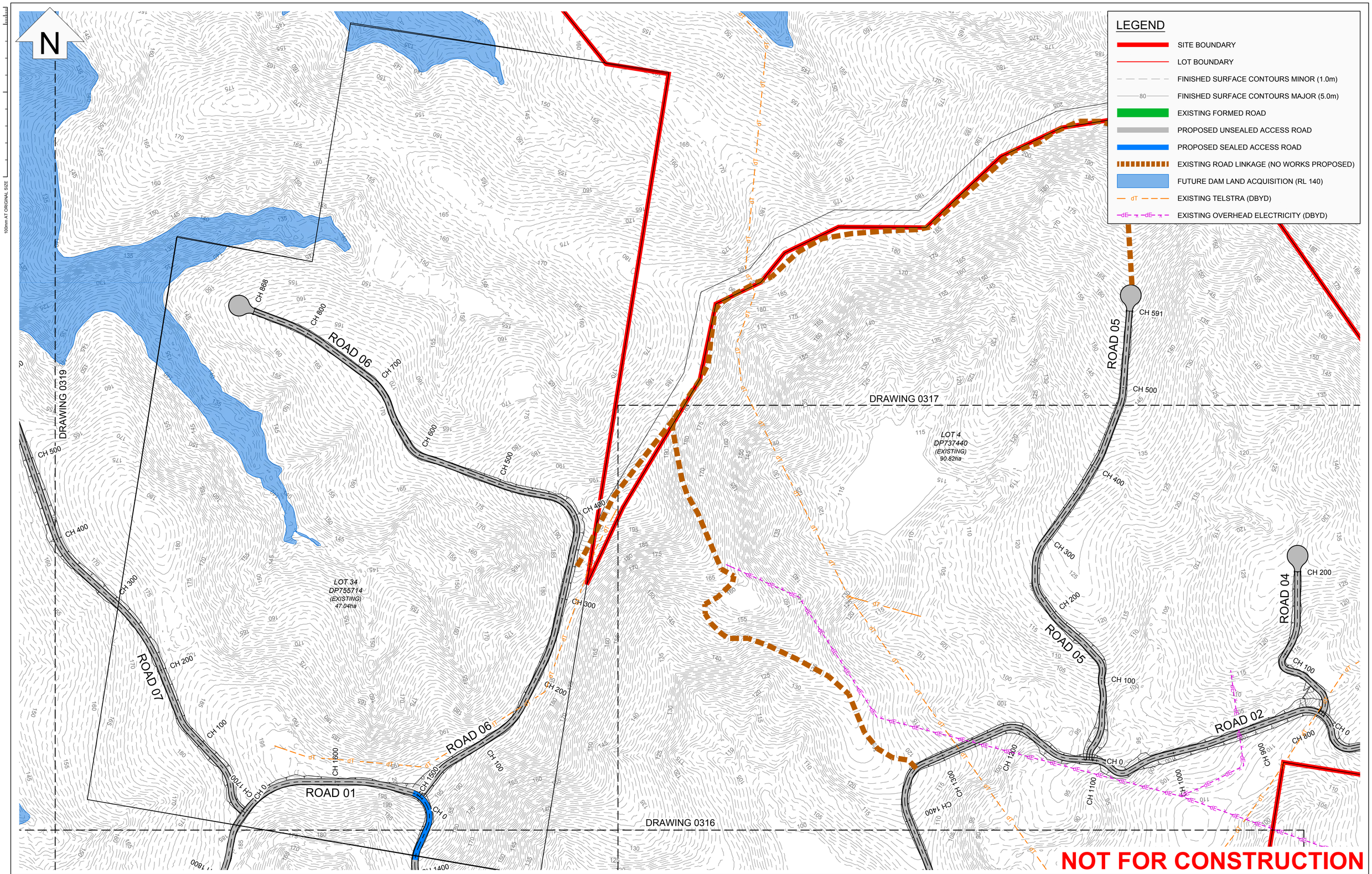
PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD PLAN
SHEET 9 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0319	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0310 ROADS KEY PLAN.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:19:15 PM



REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

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PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD PLAN
SHEET 10 OF 10

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0320	C

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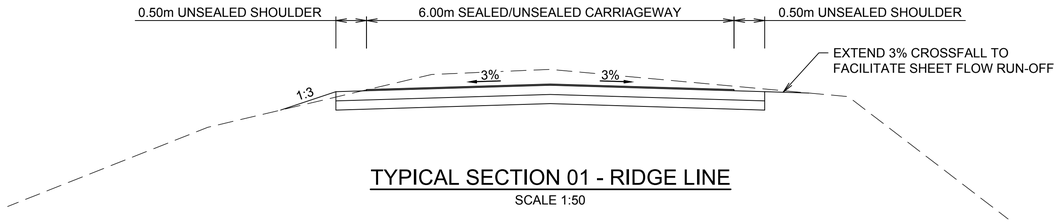
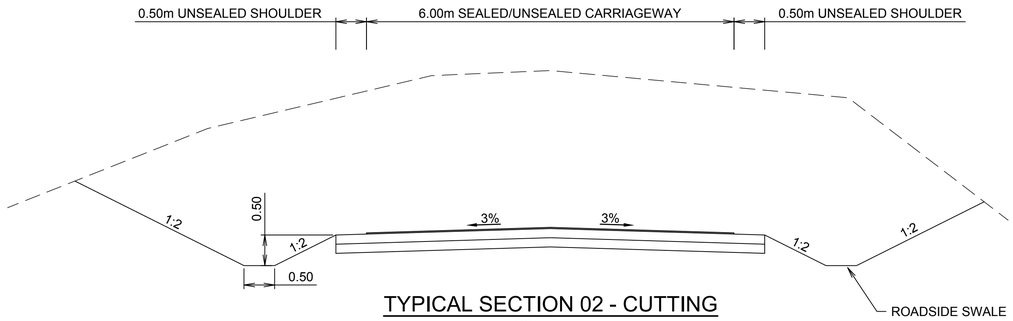


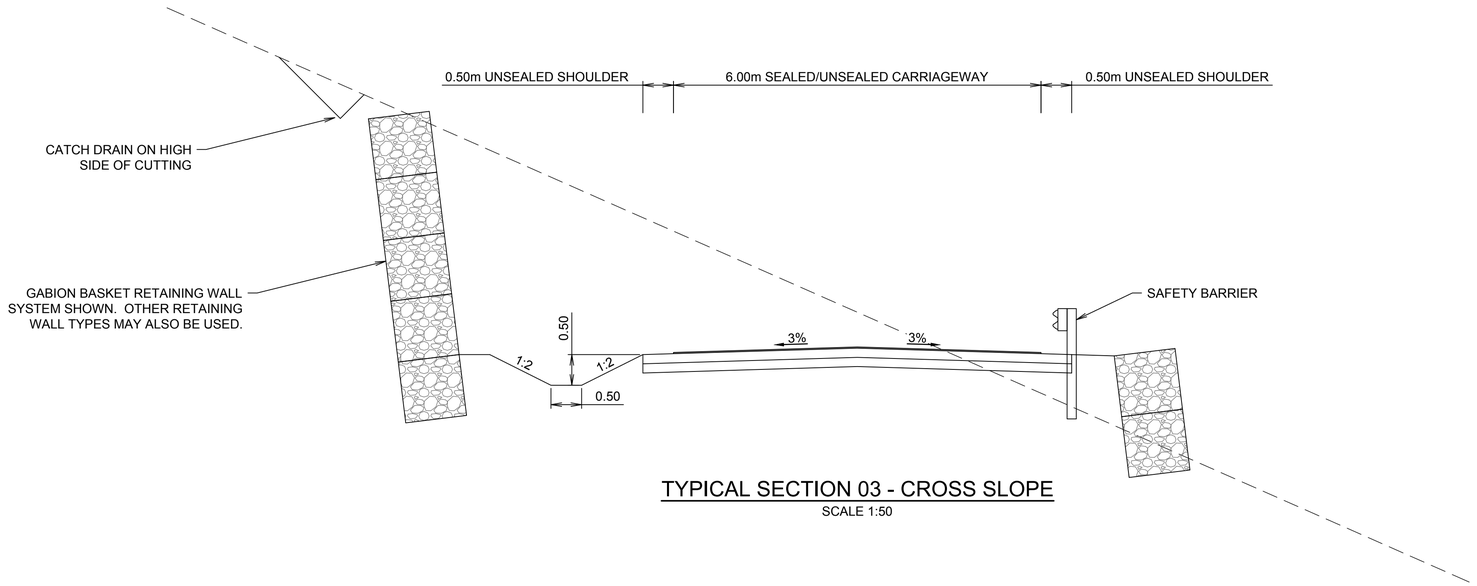
TYPICAL SECTION 01 - RIDGE LINE

SCALE 1:50



TYPICAL SECTION 02 - CUTTING

SCALE 1:50



TYPICAL SECTION 03 - CROSS SLOPE

SCALE 1:50

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REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
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SCALES:

0 0.5 1 2 3

Full Size 1:50 ; Half Size 1:100
Scale (m)

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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

DRAWING TITLE: TYPICAL ROAD SECTIONS

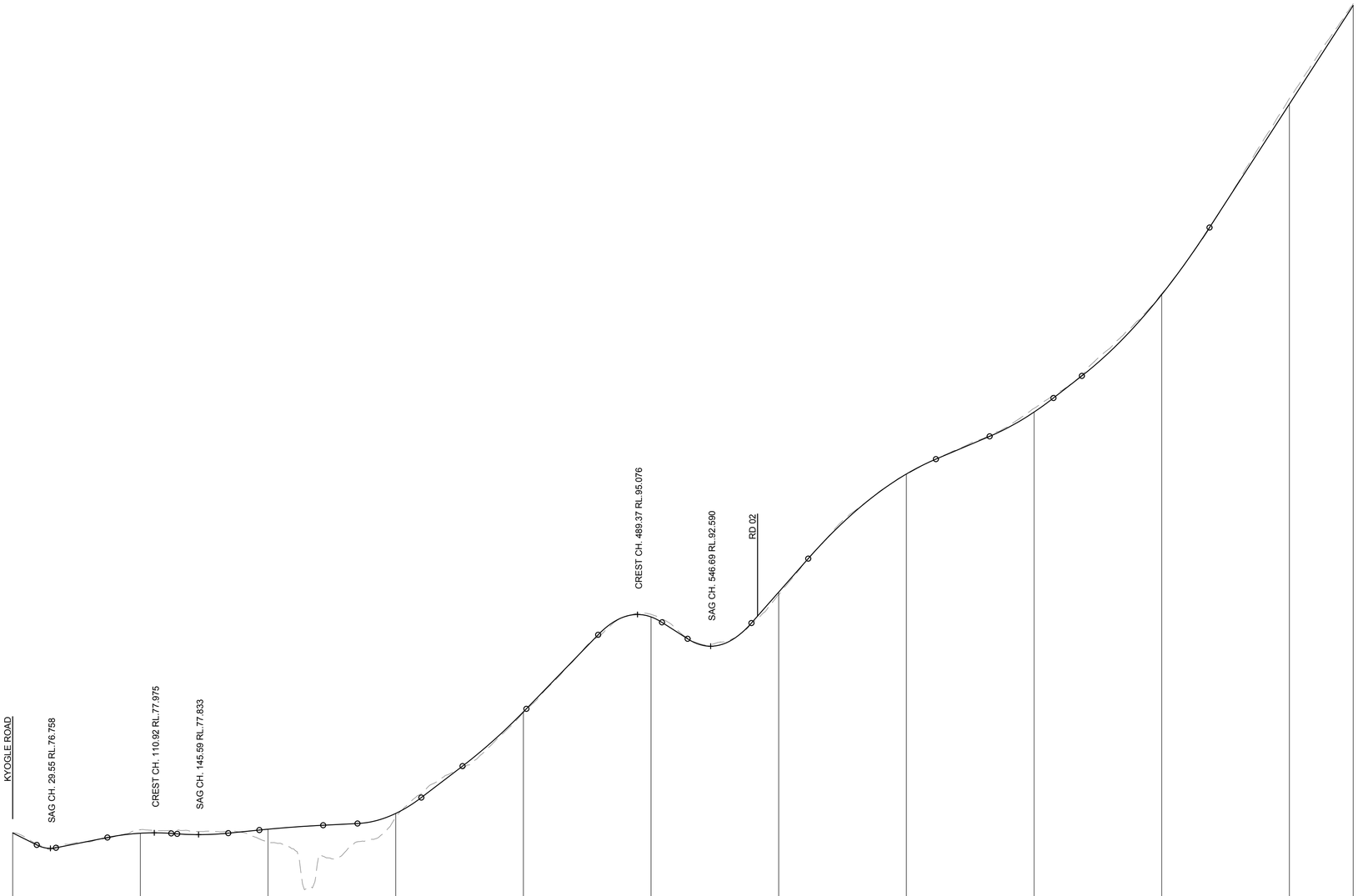
LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0330	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0330 TYPICAL ROAD SECTIONS.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:19:50 PM

100mm AT ORIGINAL SIZE

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-16m R-27m R70m R150m R30m R50m R-100m R-50m R-100m R-120m R-120m R-100m R50m R50m

VERTICAL GEOMETRY GRADE (%)	-4.99%	2%	-0.72%	1%	0.5%	7.63%	10.32%	-6.42%	11.36%	4.23%	7.78%	15.46%	
VERTICAL GRADE LENGTH (m)	26.35m	72.82m	49.66m	69.32m	76.91m	82.28m	106.23m	70.06m	119.46m	117.09m	97.27m	269.53m	
VERTICAL CURVE LENGTH (m)	L 15	L 50	L 40	L 50	L 50	L 50	L 50	L 50	L 100	L 50	L 100		
VERTICAL CURVE RADIUS (m)	R 214.51	R 1837.46	R 2324.1	R 9999.57	R 700.88	R 1864.72	R 298.7	R 281.22	R 1403.67	R 1407.73	R 1303.38		

DATUM R.L.62.0

CUT (-)/FILL DEPTH	-0.026	-0.278	1.038	0.308	0.057	-0.203	0.192	0.031	-0.287	-0.081	-0.439	-0.140	
DESIGN SURFACE	77.966	77.942	78.258	79.491	87.447	94.887	96.830	106.079	110.931	120.134	135.052	142.780	
EXISTING SURFACE	77.992	78.220	77.220	79.183	87.390	95.090	96.639	106.048	111.218	120.215	135.491	142.920	
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1050.00	

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION

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REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

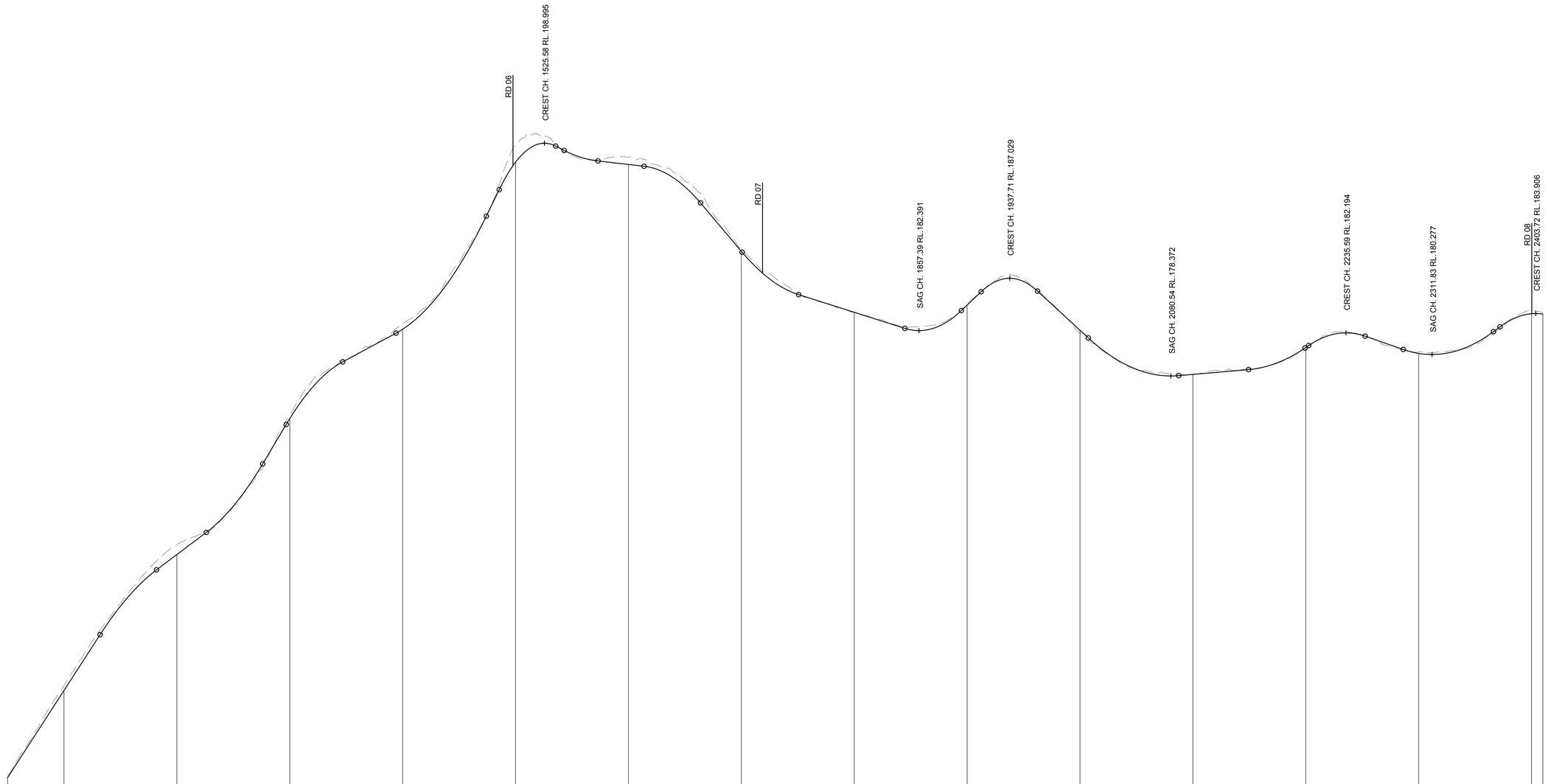
DRAWING TITLE: ROAD 01 LONGITUDINAL SECTION
SHEET 1 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0340	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:02 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R50m | R-100m | R100m | R50m R-50m | R50m | R-30m | R-200m | R-80m | R-50m | R100m | R-100m | R100m R-50m | R40m | R-100m | R-50m | R60m | R-100m | R-70m

VERTICAL GEOMETRY GRADE (%): 15.46% | 7.52% | 16.79% | 5.37% | 20.55% | -5.1% | -1.15% | -11.85% | -3.18% | 9.48% | -9.22% | 0.86% | 6.8% | -3.49% | 7.43% | -4.31%

VERTICAL GRADE LENGTH (m): 269.53m | 94.05m | 70.82m | 112.25m | 76.43m | 47.49m | 80.84m | 86.87m | 144.11m | 67.52m | 110.02m | 126.93m | 53.23m | 98.74m | 70.79m | 77.11m

VERTICAL CURVE LENGTH (m) / VERTICAL CURVE RADIUS (m): L 50 R 630.27 | L 50 R 539.54 | L 50 R 438.01 | L 80 R 527.22 | L 50 R 194.94 | L 30 R 758.88 | L 50 R 467.31 | L 50 R 576.7 | L 50 R 395 | L 50 R 267.4 | L 80 R 793.68 | L 50 R 842.17 | L 50 R 486.11 | L 80 R 732.8 | L 50 R 425.92

DATUM R.L.131.0

CUT (-)/FILL DEPTH	-0.140	-0.419	-0.895	-0.299	-0.456	-1.588	-0.640	-0.101	-0.012	-0.067	0.236	-0.010	0.026	-0.139	-0.304	-0.104
DESIGN SURFACE	142.780	150.507	162.550	174.599	182.512	197.317	197.113	189.422	184.015	184.656	182.424	178.510	180.898	180.372	183.890	183.859
EXISTING SURFACE	142.920	150.927	163.444	174.898	182.968	198.905	197.752	189.523	184.027	184.723	182.187	178.520	180.871	180.511	184.193	183.963
CHAINAGE	1050.00	1100.00	1200.00	1300.00	1400.00	1500.00	1600.00	1700.00	1800.00	1900.00	2000.00	2100.00	2200.00	2300.00	2400.00	2410.00

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120 — Full Size 1:2,000 ; Half Size 1:4,000 Scale (m)
0 2 4 8 12 — Full Size 1:200 ; Half Size 1:400 Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

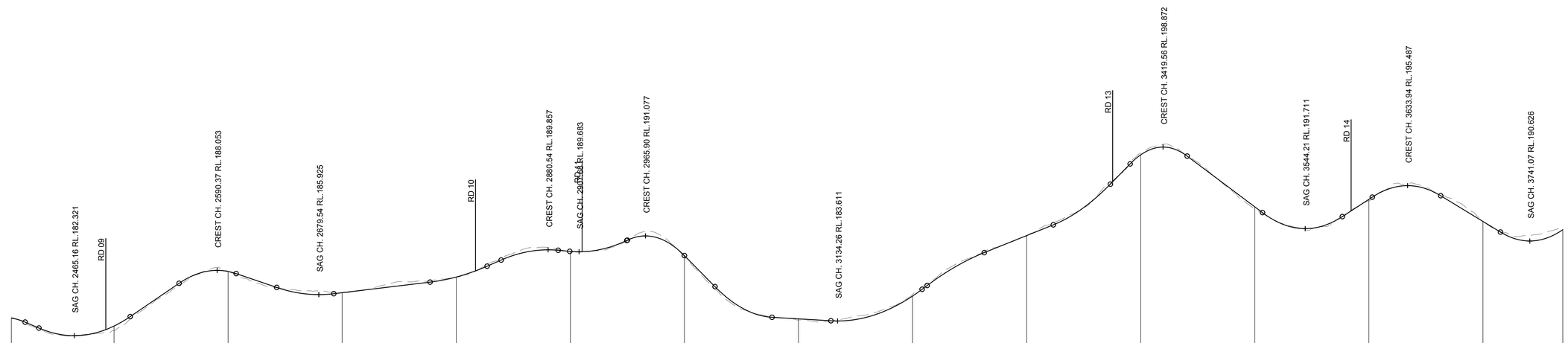
DRAWING TITLE: ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0341 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:06 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA	R-70m		R200m		R100m	R-120m		R-100m	R200m		R80m	R-200m		R100m	R100m	R100m	R100m		R-50m	R-100m	R-100m		R50m		R200m			
VERTICAL GEOMETRY GRADE (%)	-4.31%		6.82%		-3.41%	1.21%		4.37%	-0.93%		4.75%	-10.15%		-0.6%	7.5%	4.03%	10.25%		-7.51%	6.51%	-6.09%		12.87%					
VERTICAL GRADE LENGTH (m)	77.11m		107.85m		85.57m	134.41m		62.32m	60.14m		50.49m	76.84m		116.58m	69.41m	110.57m	67.35m		126.01m	91.22m	122.43m		76.78m					
VERTICAL CURVE LENGTH (m)	L 50	L 80		L 50	L 50		L 50	L 50	L 50	L 50		L 50	L 80		L 50		L 50	L 50		L 70		L 60		L 80				
VERTICAL CURVE RADIUS (m)	R 425.92	R 718.82		R 488.66		R 1082.7		R 1579.29	R 942.42	R 879.8	R 335.47	R 523.06		R 987.93	R 1439.39		R 803.68	R 281.5		R 499.13		R 475.99		R 421.9					

DATUM R.L.170.0

CUT (-)/FILL DEPTH	-0.104	0.383	-0.009	0.001	0.003	0.006	0.119	0.108	-0.144	0.028	-0.144	0.193	0.139	-0.021	-0.371
DESIGN SURFACE	183.859	183.166	187.958	186.093	187.467	189.716	189.343	183.797	185.798	191.104	198.193	193.624	194.286	192.345	191.617
EXISTING SURFACE	183.963	182.783	187.966	186.092	187.464	189.711	189.225	183.689	185.943	191.077	198.337	193.431	194.148	192.366	191.988
CHAINAGE	2410.00	2500.00	2600.00	2700.00	2800.00	2900.00	3000.00	3100.00	3200.00	3300.00	3400.00	3500.00	3600.00	3700.00	3770.00

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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ABN: 20 099 261 711
EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

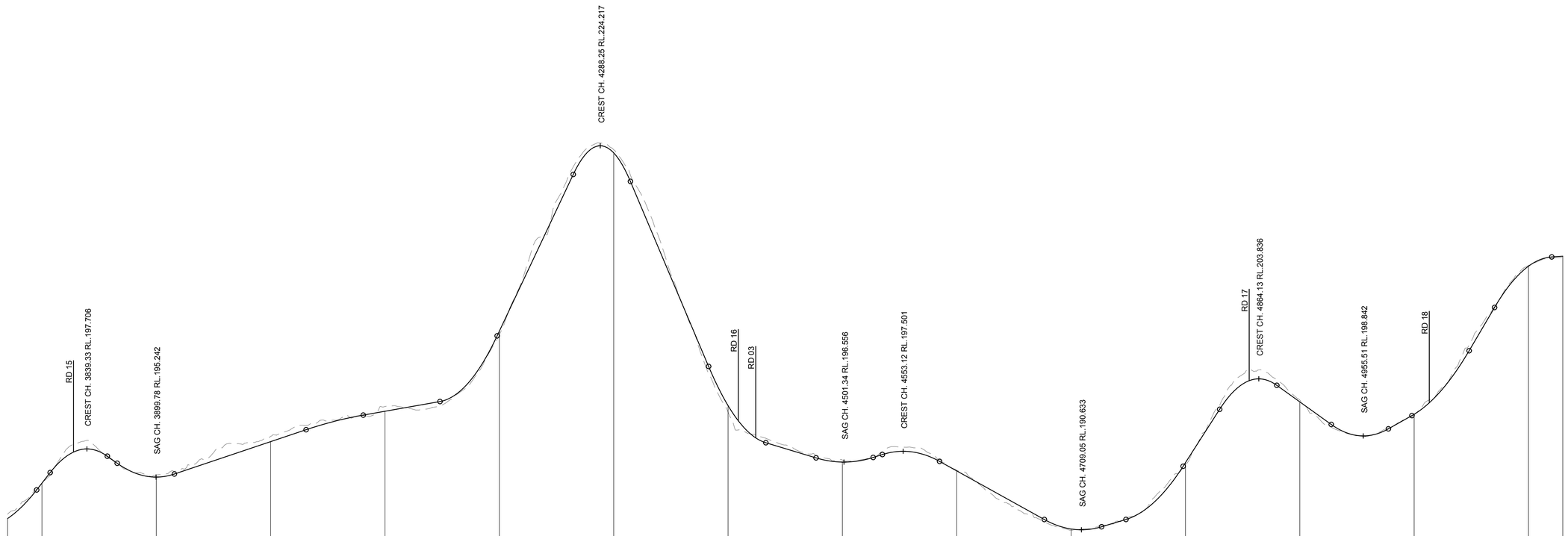
DRAWING TITLE: ROAD LONGITUDINAL SECTION
SHEET 3 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0342	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:10 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-50m, R-200m, R60m, R200m, R-100m, R80m, R-80m, R48m, R80m, R-100m, R100m, R100m, R-70m, R200m, R-30m

VERTICAL GEOMETRY GRADE (%)		12.87%	-7.13%	3.36%	1.76%	21.22%	-23.66%	-3.02%	3.16%	-5.55%	3%	15.59%	-7.19%	5.64%	17.03%	0.65%										
VERTICAL GRADE LENGTH (m)		76.78m	58.65m	165.16m	117.12m	116.53m	118.39m	93.93m	58.05m	141.63m	71.36m	81.94m	97.58m	70.58m	72.25m	60.25m										
VERTICAL CURVE LENGTH (m)	L 80	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50										
VERTICAL CURVE RADIUS (m)	R 421.9	R 250.02	R 476.54	R 3125.39	R 257.03	R 111.42	R 242.21	R 809.45	R 574.06	R 584.62	R 397.17	R 219.47	R 389.74	R 439.13	R 305.23											
DATUM R.L.179.0																										
CUT (-)/FILL DEPTH	-0.371	0.081	-0.187	-0.477	-0.410	0.305	-0.270	0.565	-0.179	-0.054	0.114	0.229	-0.146	0.057	-0.070	0.110										
DESIGN SURFACE	191.617	194.715	195.242	198.343	201.002	208.001	223.597	201.493	196.557	195.784	190.703	196.505	201.825	200.735	213.688	214.558										
EXISTING SURFACE	191.988	194.634	195.429	198.820	201.412	207.696	223.868	200.928	196.736	195.838	190.589	196.275	201.971	200.678	213.757	214.448										
CHAINAGE	3770.00	3800.00	3900.00	4000.00	4100.00	4200.00	4300.00	4400.00	4500.00	4600.00	4700.00	4800.00	4900.00	5000.00	5100.00	5130.00										

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

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B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

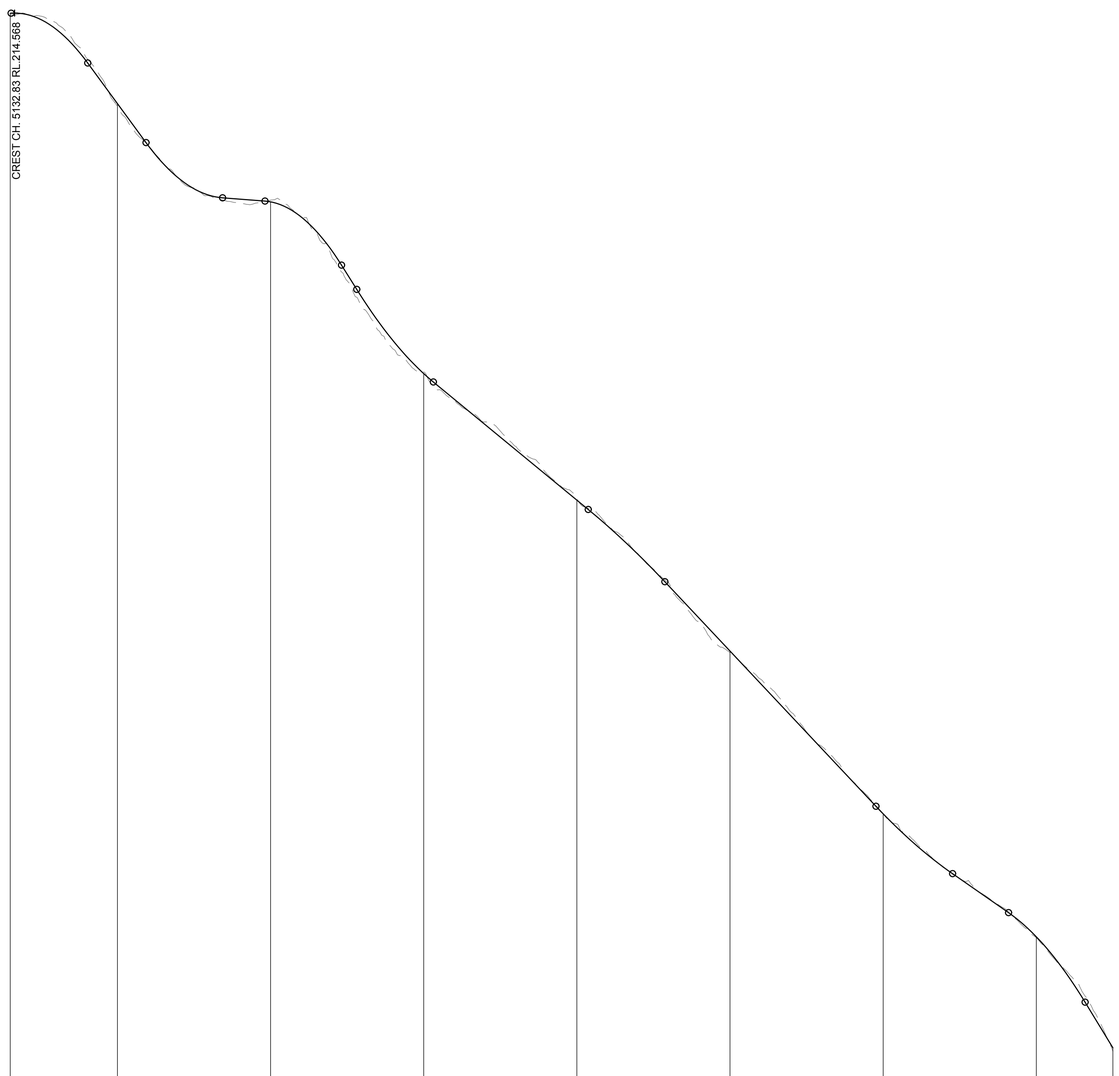
DRAWING TITLE: ROAD 01 LONGITUDINAL SECTION
SHEET 4 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0343	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:15 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R80m, R200m, R50m, R100m, R100m, R100m, R-30m

VERTICAL GEOMETRY GRADE (%): 0.65%, -13.65%, -0.77%, -15.95%, -8.23%, -10.63%, -6.96%, -16.42%

VERTICAL GRADE LENGTH (m): 60.25m, 88.06m, 77.69m, 59.95m, 151.16m, 187.88m, 86.56m, 75.43m

VERTICAL CURVE LENGTH (m): L 50, L 50, L 50, L 50, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 349.76, R 388.3, R 329.55, R 647.99, R 2079.92, R 1361.22, R 528.69

DATUM R.L.135.0

CUT (-)/FILL DEPTH	0.110	0.170	-0.110	-0.125	-0.095	0.094	-0.005	0.063	0.222	
DESIGN SURFACE	214.558	208.657	202.246	191.030	182.771	172.917	162.292	154.266	147.017	
EXISTING SURFACE	214.448	208.488	202.355	191.156	182.866	172.823	162.296	154.204	146.795	
CHAINAGE	5130.00	5200.00	5300.00	5400.00	5500.00	5600.00	5700.00	5800.00	5850.00	

SCALE HZ 1:2000,VT 1:200

RD 01 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

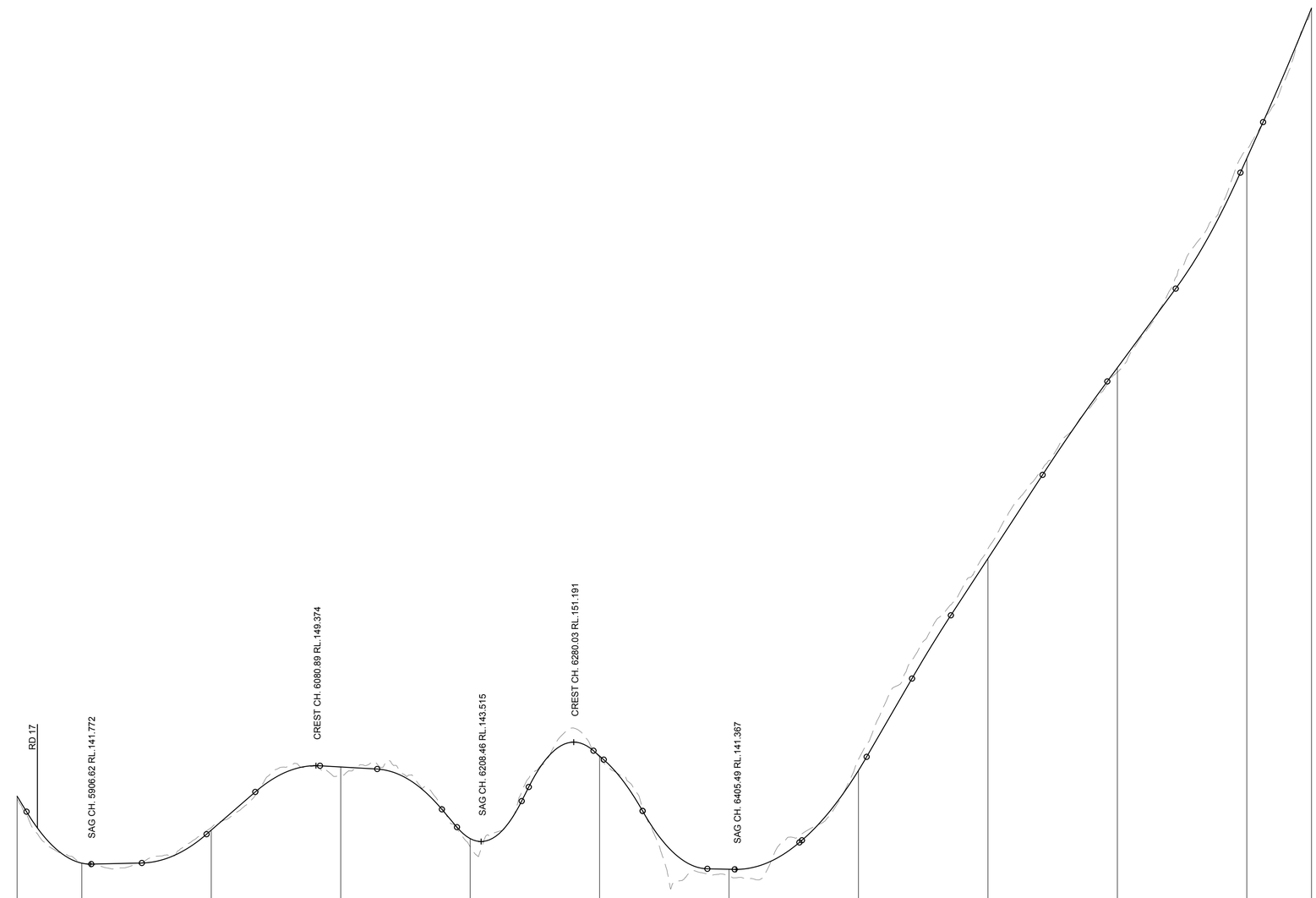
DRAWING TITLE: ROAD 01 LONGITUDINAL SECTION
SHEET 5 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0344 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:20 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-30m R-30m | R-50m | R-100m | R80m | R-80m | R30m | R-100m | R50m | R-50m | R100m | R-100m | R-100m | R50m

VERTICAL GEOMETRY GRADE (%): -16.42% | 0.22% | 8.67% | -0.57% | -11.87% | 19.93% | -8.72% | -17.64% | -0.2% | 8.52% | 17.24% | 15.31% | 13.55% | 22.27% | 25.59%

VERTICAL GRADE LENGTH (m): 75.43m | 89.06m | 87.66m | 94.19m | 61.62m | 55.45m | 47.93m | 40.07m | 71.1m | 51.94m | 75.06m | 110.86m | 102.86m | 67.5m | 75.43m

VERTICAL CURVE LENGTH (m): L 50 | L 50 | L 50 | L 50 | L 50 | L 50 | L 30 | L 50 | L 50 | L 50 | L 30 | L 50 | L 50 | L 50

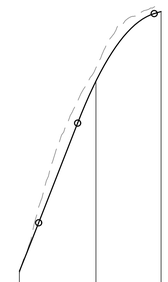
VERTICAL CURVE RADIUS (m): R 300.55 | R 591.89 | R 541.13 | R 442.72 | R 157.23 | R 174.5 | R 336.4 | R 286.71 | R 573.66 | R 572.91 | R 1548.56 | R 2855.5 | R 573.96 | R 1504.45

DATUM R.L.128.0

CUT (-)/FILL DEPTH	0.222	-0.027	-0.193	0.680	0.637	0.081	0.516	-0.855	-0.760	0.349	-0.667	0.142		
DESIGN SURFACE	147.017	141.845	144.396	149.274	143.743	150.113	141.377	149.004	165.367	180.099	196.261	207.860		
EXISTING SURFACE	146.795	141.871	144.589	148.594	143.106	150.032	140.861	149.859	166.127	179.750	196.928	207.718		
CHAINAGE	5850.00	5900.00	6000.00	6100.00	6200.00	6300.00	6400.00	6500.00	6600.00	6700.00	6800.00	6850.00		

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION



HORIZONTAL CURVE DATA: R-200m

VERTICAL GEOMETRY GRADE (%): 25.59% | 3%

VERTICAL GRADE LENGTH (m): 75.43m | 29.55m

VERTICAL CURVE LENGTH (m): 50 | L 50

VERTICAL CURVE RADIUS (m): R 1504.45 | R 221.34

DATUM R.L.196.0

CUT (-)/FILL DEPTH	0.142	-0.865	-0.430	
DESIGN SURFACE	207.860	220.277	224.814	
EXISTING SURFACE	207.718	221.142	225.244	225.248
CHAINAGE	6850.00	6900.00	6942.54	6942.59

SCALE HZ 1:2000, VT 1:200

RD 01 LONGITUDINAL SECTION

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REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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CLIENT: NCV ENTERPRISES PTY LTD

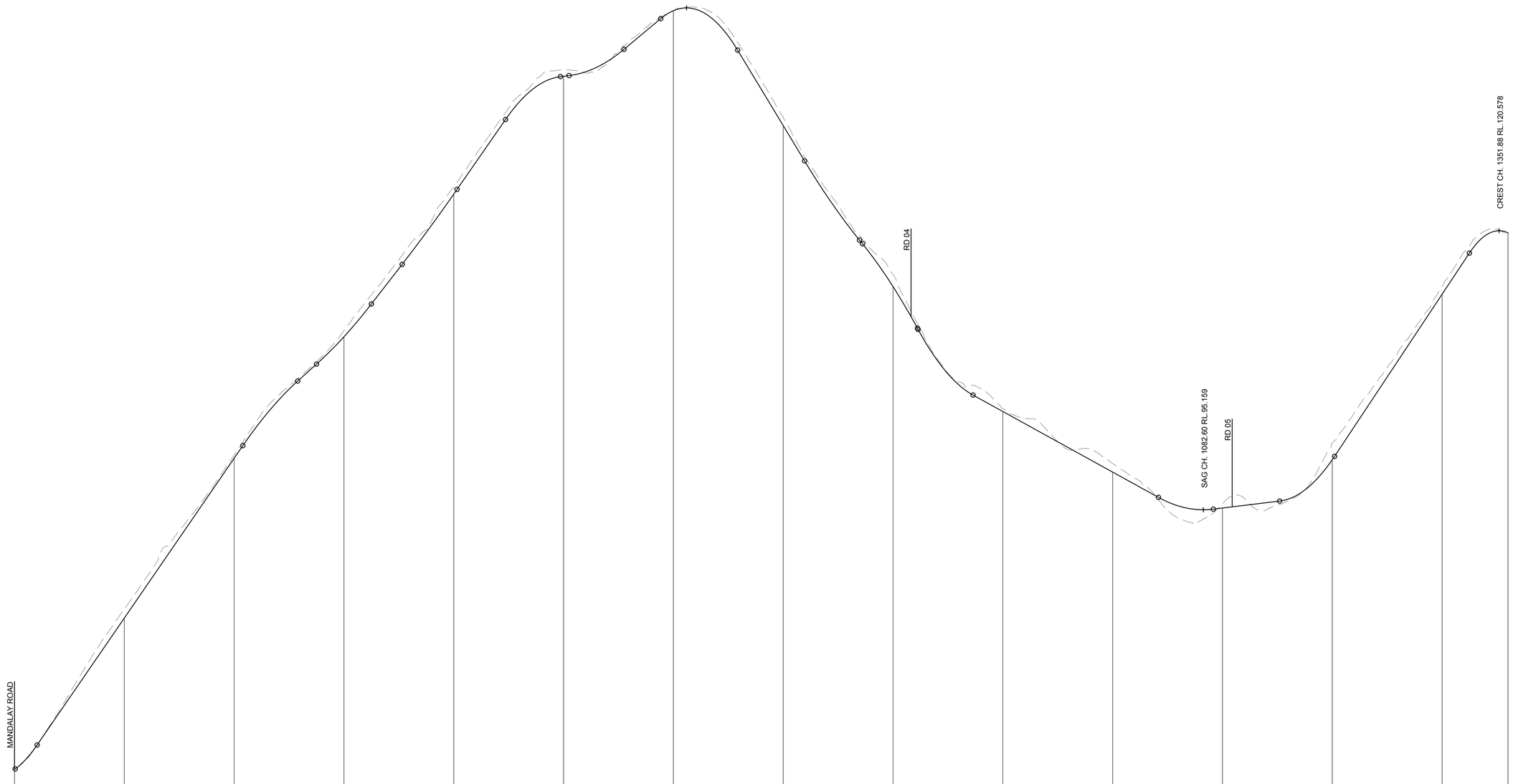
PROJECT: NIGHTCAP VILLAGE

DRAWING TITLE: ROAD 01 LONGITUDINAL SECTION
SHEET 6 OF 6

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0345 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:25 PM



HORIZONTAL CURVE DATA	R20m	R50m	R-100m	R-50m	R50m	R200m	R200m	R-80m	R-32m	R-50m	R30m	R-100m	R-20m	R20m	R-30m	R100m	R-100m	R15m	R-30m	R40m	R-30m	R-30m	R-50m
VERTICAL GEOMETRY GRADE (%)	7.3%	14.56%	9.01%	12.9%	14.42%	1.22%	8.35%	-16.55%	-12.32%	-18.4%	-5.52%	1.22%	15.08%	-12.73%
VERTICAL GRADE LENGTH (m)	10.59m	222.32m	67.05m	78.01m	94.13m	57.9m	93.44m	121m	52.73m	50.66m	218.8m	110.39m	172.73m	111.96m
VERTICAL CURVE LENGTH (m)	L 20	L 50	L 50	L 50	L 50	L 50	L 70	L 50	L 50	L 50	L 50	L 50	L 50
VERTICAL CURVE RADIUS (m)	R 275.65	R 901.19	R 1283.67	R 3292.27	R 378.65	R 700.47	R 281.11	R 1181.6	R 822.12	R 388.27	R 741.93	R 360.71	R 179.77

DATUM R.L.60.0

CUT (-)/FILL DEPTH	0.000	-0.826	-0.271	-0.551	-0.662	-0.594	-0.006	-0.748	-1.085	-0.254	-0.782	-0.385	-1.547	-0.710	0.219
DESIGN SURFACE	71.504	85.290	99.845	110.922	123.917	134.653	140.628	130.157	115.490	104.108	98.588	95.316	99.724	114.799	120.394
EXISTING SURFACE	71.504	86.116	100.116	111.473	124.579	135.247	140.634	130.905	116.574	104.362	99.370	95.700	101.271	115.509	120.176
CHAINAGE	-0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1100.00	1200.00	1300.00	1360.00

SCALE HZ 1:2000, VT 1:200

RD 02 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

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A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
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Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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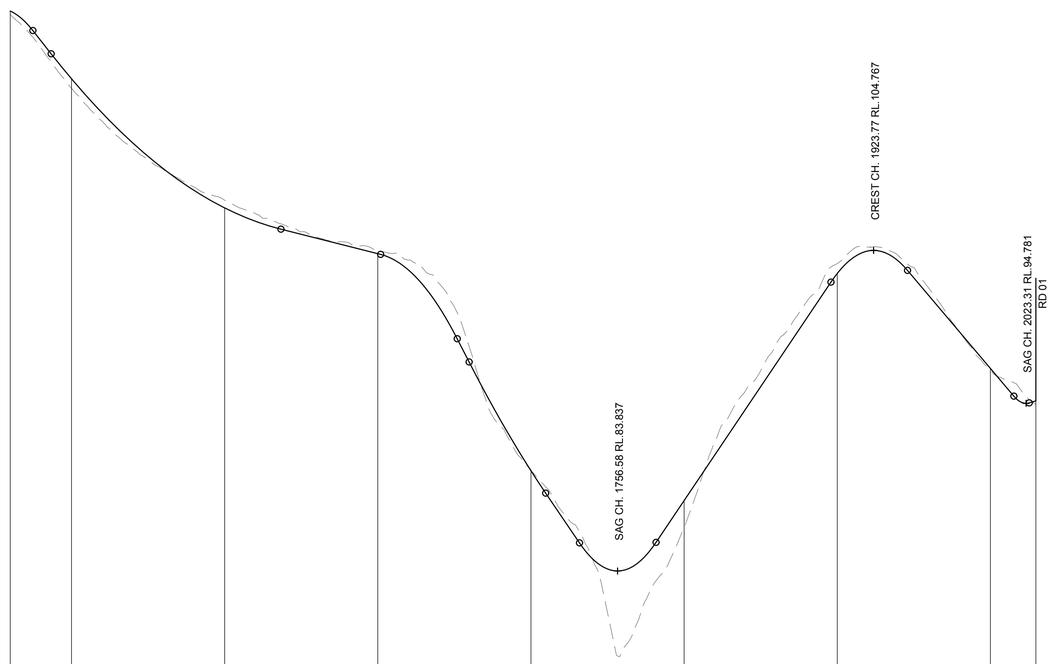
CLIENT: NCV ENTERPRISES PTY LTD
PROJECT: NIGHTCAP VILLAGE
DRAWING TITLE: ROAD 02 LONGITUDINAL SECTION
SHEET 1 OF 2
LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL
ORIGINAL SIZE: A1
PLANIT JOB No.: J6100
DRAWING No.: 0346
REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:30 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R-50m		R-50m	R100m	R80m	R-200m	R200m	R100m		
VERTICAL GEOMETRY GRADE (%)		-12.73%		-2.53%		-19.51%	-14.73%	14.88%	-11.82%	3%	
VERTICAL GRADE LENGTH (m)		111.96m		165.13m		57.77m	72.06m	164.21m	99.43m	9.39m	
VERTICAL CURVE LENGTH (m)	L 50		L 150			L 50	L 50	L 50	L 50		L 10
VERTICAL CURVE RADIUS (m)	R 179.77		R 1469.78			R 294.42	R 1046.8	R 168.87	R 187.3		R 67.48

DATUM R.L.67.0

CUT (-)/FILL DEPTH	0.219	0.607	-0.503	-0.213	-0.041	1.764	-0.655	0.115	0.247		
DESIGN SURFACE	120.394	115.968	107.540	104.554	90.384	88.428	103.259	97.065	94.943		
EXISTING SURFACE	120.176	115.361	108.043	104.767	90.425	86.665	103.914	96.950	94.697		
CHAINAGE	1360.00	1400.00	1500.00	1600.00	1700.00	1800.00	1900.00	2000.00	2029.73		

SCALE HZ 1:2000, VT 1:200

RD 02 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

DO NOT SCALE FROM DRAWING

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

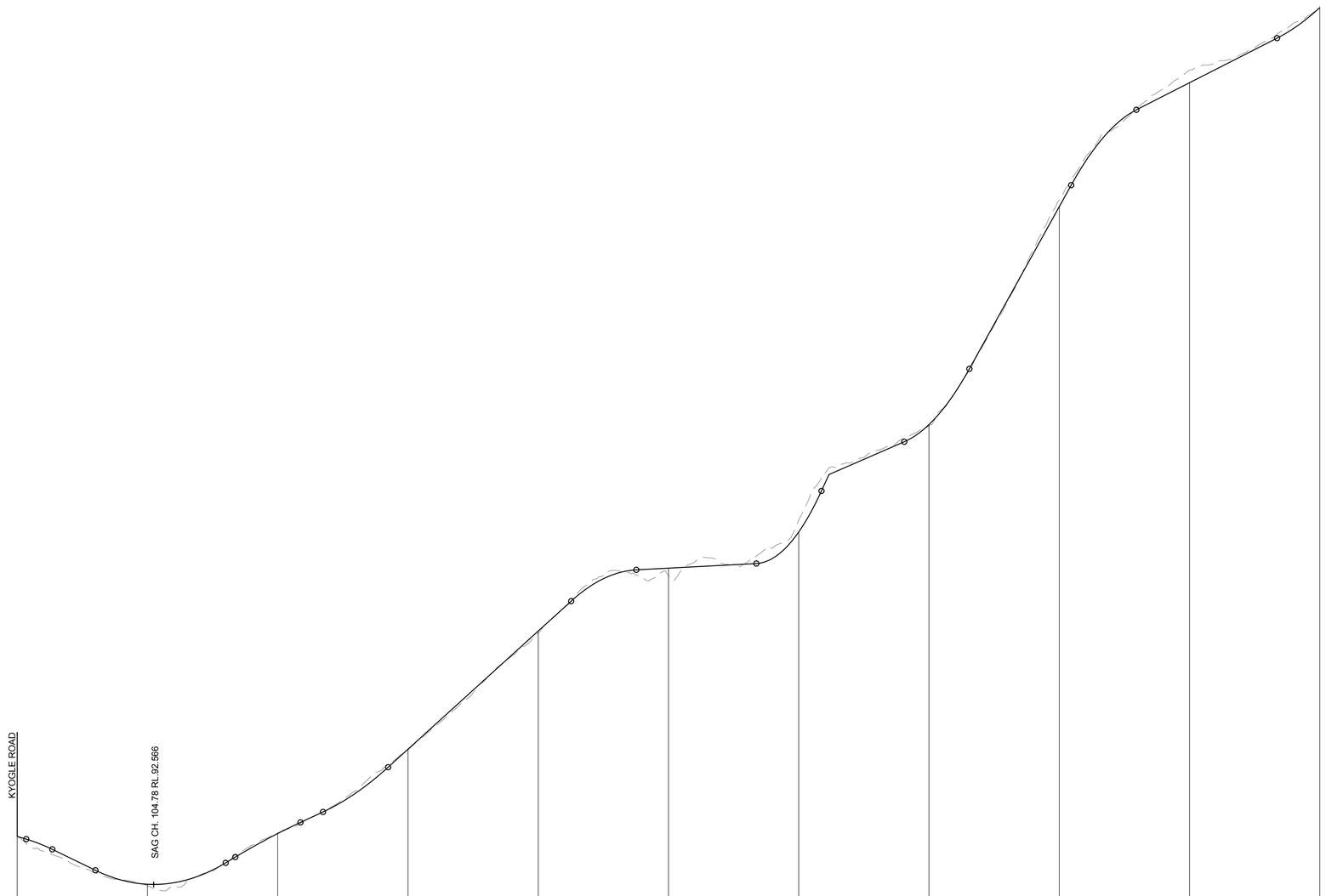
DRAWING TITLE: ROAD 02 LONGITUDINAL SECTION
SHEET 2 OF 2

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0347	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:35 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R-200m		R100m		R50m	R-50m			R-70m			R-200m		R80m	R-80m			R-100m				R200m
VERTICAL GEOMETRY GRADE (%)	-3%		-4.86%			6%		4.65%			9.08%			0.53%	21.78%	4.36%		18.04%			5.09%		11.36%
VERTICAL GRADE LENGTH (m)	16.91m		93.11m			82.39m		67.33m			190.52m			142.15m	30.79m	82.76m		128.2m			158.04m		116.76m
VERTICAL CURVE LENGTH (m)		L 20		L 100			L 50		L 50			L 50			L 50		L 50			L 50			L 50
VERTICAL CURVE RADIUS (m)		R 1076		R 921.13			R 3713.23		R 1129.22			R 584.6			R 235.29		R 365.28			R 386.1			R 797.88

DATUM R.L.80.0

CUT (-)/FILL DEPTH	0.000	0.112	-0.047	0.061	0.146	0.608	-0.910	0.087	-0.495	-0.962	-0.128
DESIGN SURFACE	96.255	92.578	96.477	102.951	112.030	116.855	119.637	127.886	144.617	154.136	159.904
EXISTING SURFACE	96.255	92.466	96.524	102.890	111.884	116.247	120.547	127.799	145.112	155.098	160.032
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00

SCALE HZ 1:2000,VT 1:200

RD 03 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

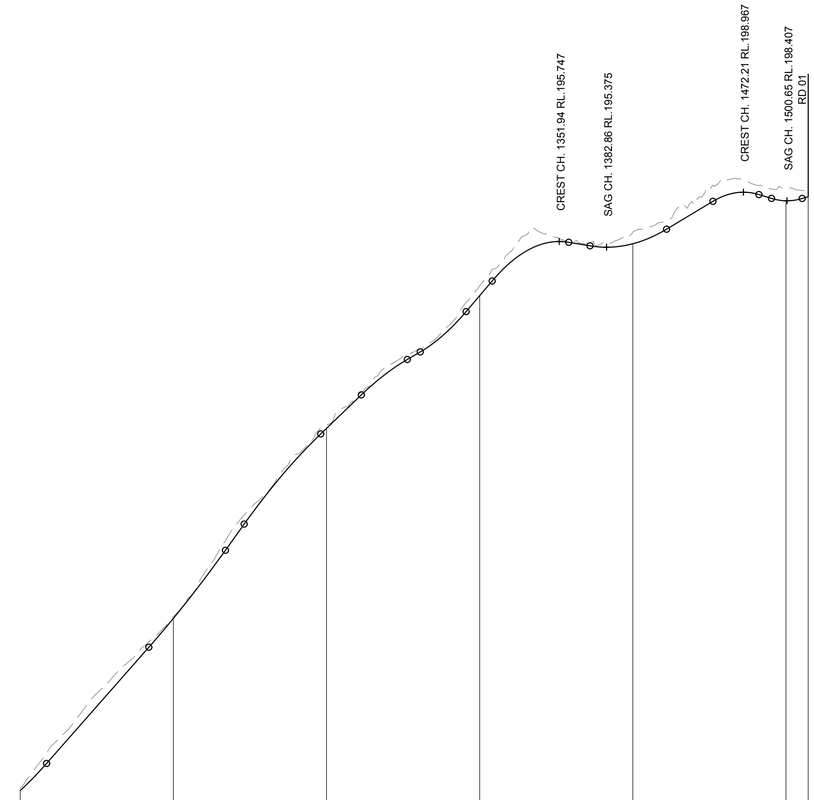
DRAWING TITLE: ROAD 03 LONGITUDINAL SECTION
SHEET 1 OF 2

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0348	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:40 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R200m, R200m, R-100m, R150m, R-30m, R15m

VERTICAL GEOMETRY GRADE (%): 11.36%, 13.96%, 9.6%, 5.81%, 11.77%, -1.66%, 6%, -3.05%, 3%

VERTICAL GRADE LENGTH (m): 116.76m, 62.24m, 66.52m, 38.41m, 56.99m, 63.9m, 70.28m, 33.27m, 13.96m

VERTICAL CURVE LENGTH (m): L 50, L 50, L 50, L 30, L 30, L 50, L 50, L 30, L 20

VERTICAL CURVE RADIUS (m): R 797.88, R 1923.69, R 1147.4, R 791.85, R 504.08, R 372.41, R 652.26, R 331.39, R 330.68

DATUM R.L.148.0

CUT (-)/FILL DEPTH	-0.128	-0.121	-0.216	-0.641	-0.748	-0.804		
DESIGN SURFACE	159.904	171.146	183.551	192.214	195.600	198.408	198.675	
EXISTING SURFACE	160.032	171.267	183.767	192.855	196.348	199.212		
CHAINAGE	1000.00	1100.00	1200.00	1300.00	1400.00	1500.00	1514.53	

SCALE HZ 1:2000, VT 1:200

RD 03 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120 — Full Size 1:2,000 ; Half Size 1:4,000 Scale (m)
0 2 4 8 12 — Full Size 1:200 ; Half Size 1:400 Scale (m)
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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

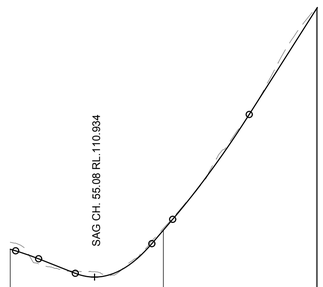
DRAWING TITLE: ROAD 03 LONGITUDINAL SECTION SHEET 2 OF 2

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0349 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:46 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-20m, R-30m, R10m, R-60m

VERTICAL GEOMETRY GRADE (%): -3%, -3.94%, 11.68%, 15.7%

VERTICAL GRADE LENGTH (m): 10.99m, 56.47m, 63.57m, 69.51m

VERTICAL CURVE LENGTH (m): L 15, L 50, L 50

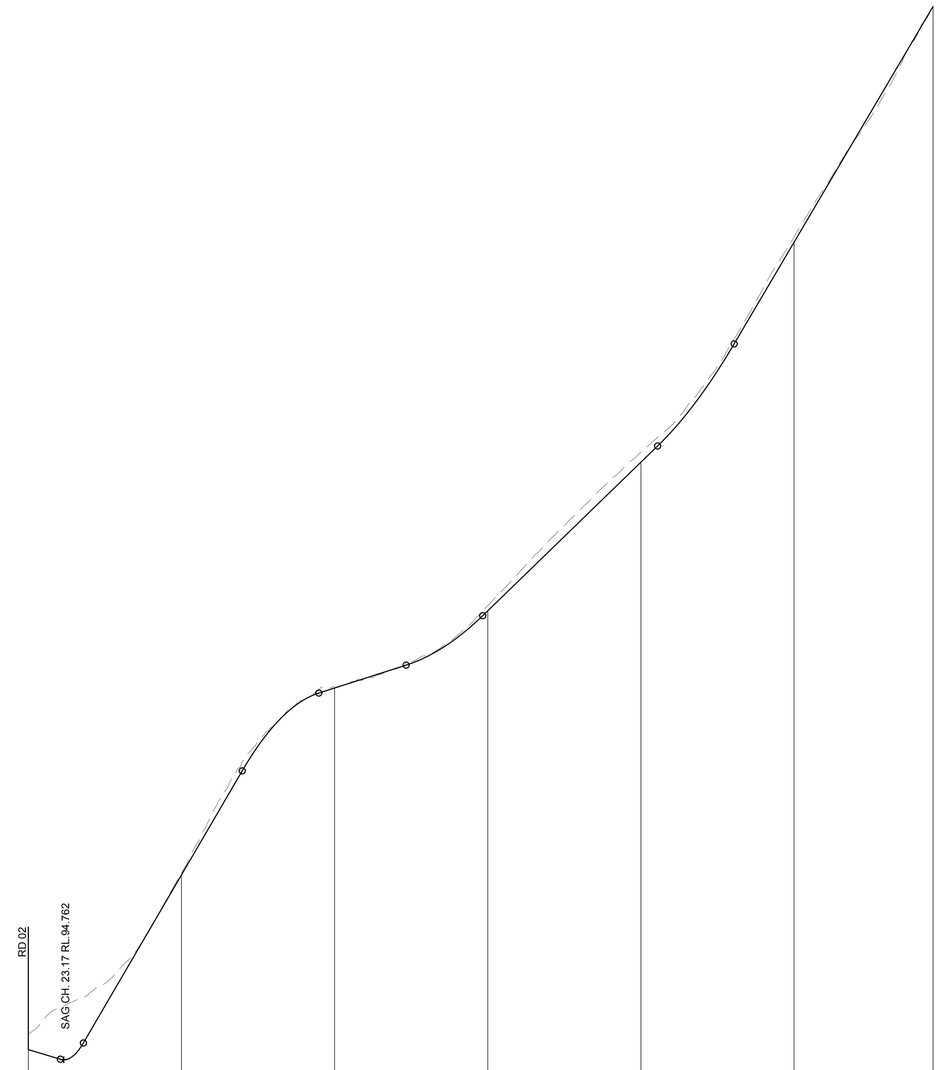
VERTICAL CURVE RADIUS (m): R 1592.71, R 320.08, R 1242.62

DATUM R.L.99.0

CUT (-)/FILL DEPTH	-0.459	-0.121	-0.031	0.000	
DESIGN SURFACE	112.753	113.998	128.452	128.537	
EXISTING SURFACE	113.212	114.119	128.483	128.537	
CHAINAGE	0.00	100.00	200.00	200.54	

SCALE HZ 1:2000,VT 1:200

RD 04 LONGITUDINAL SECTION



HORIZONTAL CURVE DATA: R20m, R-50m, R100m, R-50m, R30m, R-20m, R-100m, R100m, R40m, R50m, R-100m, R-100m, R-100m, R-50m

VERTICAL GEOMETRY GRADE (%): -3%, 17.12%, 3.2%, 9.7%, 16.97%

VERTICAL GRADE LENGTH (m): 28.43m, 136.24m, 107.03m, 164.21m, 154.84m

VERTICAL CURVE LENGTH (m): L 15, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 74.54, R 359.04, R 768.94, R 688.17

DATUM R.L.83.0

CUT (-)/FILL DEPTH	-1.012	-0.124	-0.060	-0.339	-0.666	-0.350	0.000	
DESIGN SURFACE	95.423	106.826	119.030	124.069	133.769	148.127	163.523	
EXISTING SURFACE	96.435	106.950	119.090	124.407	134.435	148.477	163.523	
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	590.75	

SCALE HZ 1:2000,VT 1:200

RD 05 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

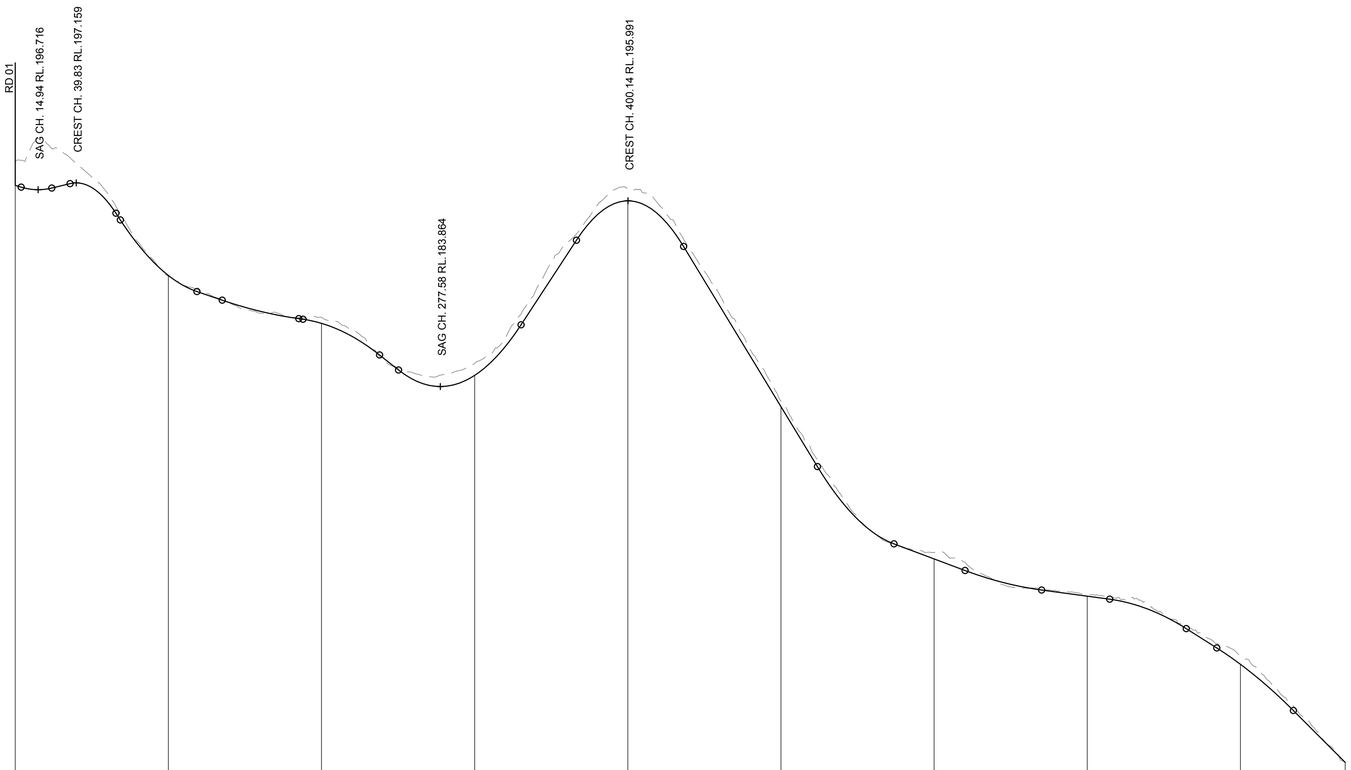
DRAWING TITLE: ROADS 04 & 05 LONGITUDINAL SECTIONS

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0350	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:51 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R50m, R-200m, R-80m, R-200m, R-40m, R200m, R-200m, R30m, R100m, R-70m, R-200m

VERTICAL GEOMETRY GRADE (%): -3%, 2.41%, -15.27%, -3.42%, -1.41%, -7.91%, 15.28%, -16.44%, -3.75%, -1.35%, -6.33%, -10%

VERTICAL GRADE LENGTH (m): 13.85m, 36.91m, 42.88m, 66.47m, 52.76m, 77.42m, 111.13m, 147.38m, 96.37m, 94.46m, 69.93m, 58.88m

VERTICAL CURVE LENGTH (m): L 20, L 30, L 50, L 50, L 50, L 80, L 70, L 50, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 369.92, R 169.68, R 421.77, R 2485.11, R 768.34, R 344.84, R 220.63, R 393.83, R 2084.8, R 1003.09, R 1362.96

DATUM R.L.148.0

CUT (-)/FILL DEPTH	-1.545	0.052	-0.393	-0.784	-0.820	-0.353	-0.424	-0.132	-0.528	0.000
DESIGN SURFACE	196.998	191.115	187.991	184.592	195.990	182.553	172.610	170.178	165.732	159.325
EXISTING SURFACE	198.543	191.063	188.383	185.376	196.811	182.906	173.034	170.310	166.261	159.325
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	868.44

SCALE HZ 1:2000, VT 1:200

RD 06 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

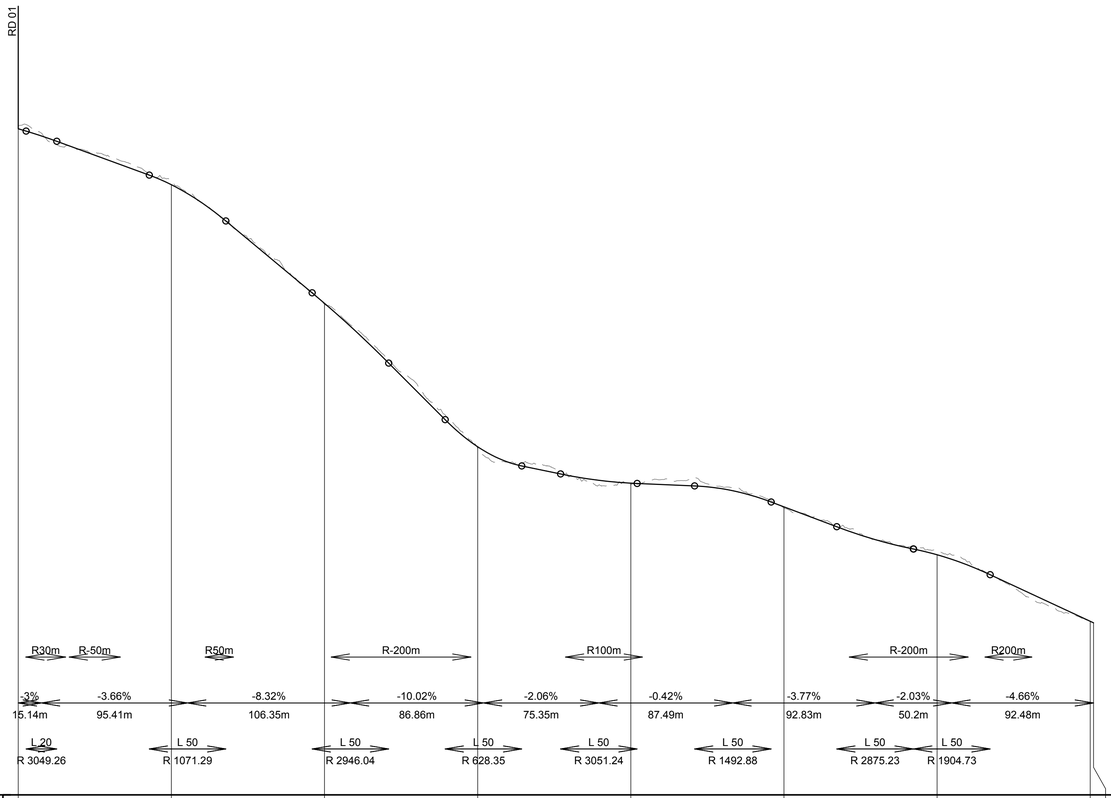
DRAWING TITLE: ROAD 06 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0351 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:20:56 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R30m, R-50m, R50m, R-200m, R100m, R-200m, R200m

VERTICAL GEOMETRY GRADE (%): -3%, -3.66%, -8.32%, -10.02%, -2.06%, -0.42%, -3.77%, -2.03%, -4.66%

VERTICAL GRADE LENGTH (m): 15.14m, 95.41m, 106.35m, 86.86m, 75.35m, 87.49m, 92.83m, 50.2m, 92.48m

VERTICAL CURVE LENGTH (m): L 20, L 50, L 50, L 50, L 50, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 3049.26, R 1071.29, R 2946.04, R 628.35, R 3051.24, R 1492.88, R 2875.23, R 1904.73

DATUM R.L.144.0

CUT (-)/FILL DEPTH	-0.181	-0.158	0.051	0.084	0.099	0.079	-0.252	0.026	0.000
DESIGN SURFACE	187.489	183.835	176.090	166.727	164.351	162.805	159.675	155.330	155.231
EXISTING SURFACE	187.670	183.993	176.040	166.643	164.252	162.726	159.926	155.304	155.231
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	702.12

SCALE HZ 1:2000, VT 1:200

RD 07 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

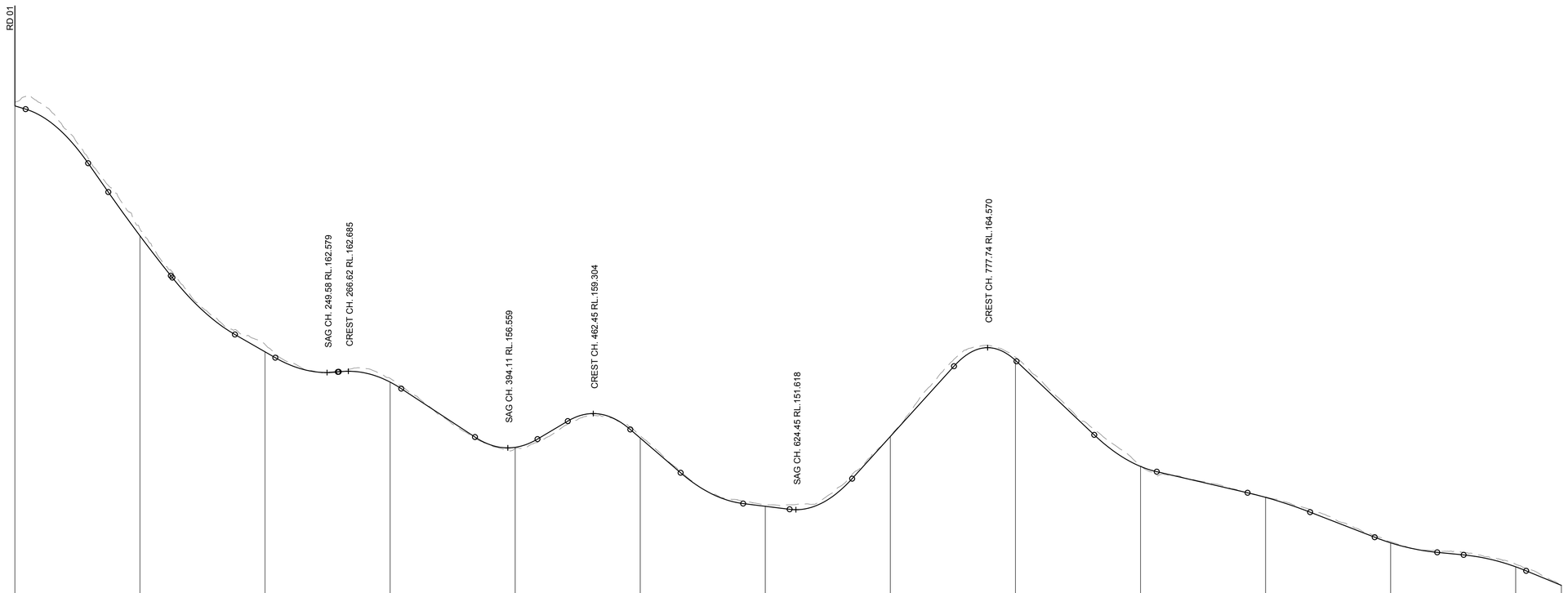
DRAWING TITLE: ROAD 07 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0352 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:00 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R100m	R-100m		R100m		R20m	R-50m		R-100m		R-100m			R50m	R-50m	R-200m		R80m	R-100m		R-50m	R-200m			R100m	
VERTICAL GEOMETRY GRADE (%)	-3%	-14.29%		-12.45%		-5.74%		1.2%		-6.57%		5.93%		-8.61%		-1.24%		11.04%		-9.46%		-2.32%		-3.88%		-0.96%		4.12%
VERTICAL GRADE LENGTH (m)	33.56m	66.13m		51.21m		82.31m		50.71m		108.9m		74.23m		90.19m		87.16m		131.42m		112.13m		122.62m		101.63m		71.12m		53.19m
VERTICAL CURVE LENGTH (m)		L 50	L 50	L 50			L 50	L 50			L 50	L 50		L 50		L 50		L 50		L 50			L 50		L 50		L 50
VERTICAL CURVE RADIUS (m)		R 442.84	R 2718.69	R 745.03			R 720.71	R 643.49			R 399.94	R 344.01			R 678.73	R 407.32			R 243.95		R 700.31		R 3206.81		R 1715.15		R 1582.48	

DATUM R.L.134.0

CUT (-)/FILL DEPTH	-0.301		-0.543		-0.586		-0.296		0.100		-0.188		-0.109		0.008		-0.253		-0.064		-0.034		-0.100		-0.200	0.000
DESIGN SURFACE	183.891		173.506		164.238		161.820		156.603		157.346		151.890		157.476		163.555		155.077		152.604		148.970		147.054	145.570
EXISTING SURFACE	184.192		174.049		164.824		162.115		156.503		157.533		151.999		157.468		163.808		155.140		152.638		149.071		147.255	145.570
CHAINAGE	-0.00		100.00		200.00		300.00		400.00		500.00		600.00		700.00		800.00		900.00		1000.00		1100.00		1200.00	1236.52

SCALE HZ 1:2000,VT 1:200

RD 08 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
DO NOT SCALE FROM DRAWING

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TELEPHONE: 02 6674 5001
ABN: 20 099 261 711
EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

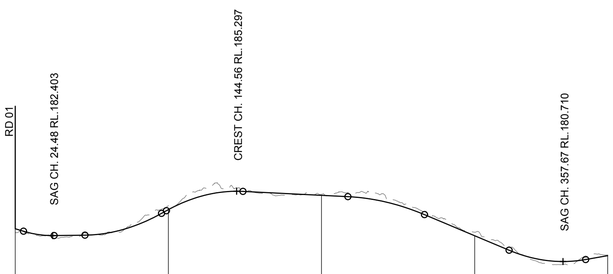
DRAWING TITLE: ROAD 08 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0353	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:05 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R15m, R-100m, R-50m, R80m, R-30m

VERTICAL GEOMETRY GRADE (%): -3%, 0.14%, 5.54%, -0.5%, -4.2%, 1.77%

VERTICAL GRADE LENGTH (m): 15.36m, 55.15m, 53.15m, 118.55m, 105.24m, 39.39m

VERTICAL CURVE LENGTH (m): L 20, L 50, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 637.3, R 925.11, R 827.97, R 1348.63, R 837.61

DATUM R.L.169.0

CUT (-)/FILL DEPTH	0.255	-0.258	-0.067	-0.233	-0.044	
DESIGN SURFACE	182.850	184.099	185.032	182.394	181.094	
EXISTING SURFACE	182.595	184.356	185.099	182.626	181.138	181.136
CHAINAGE	0.00	100.00	200.00	300.00	386.84	387.03

SCALE HZ 1:2000, VT 1:200

RD 09 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

DO NOT SCALE FROM DRAWING

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

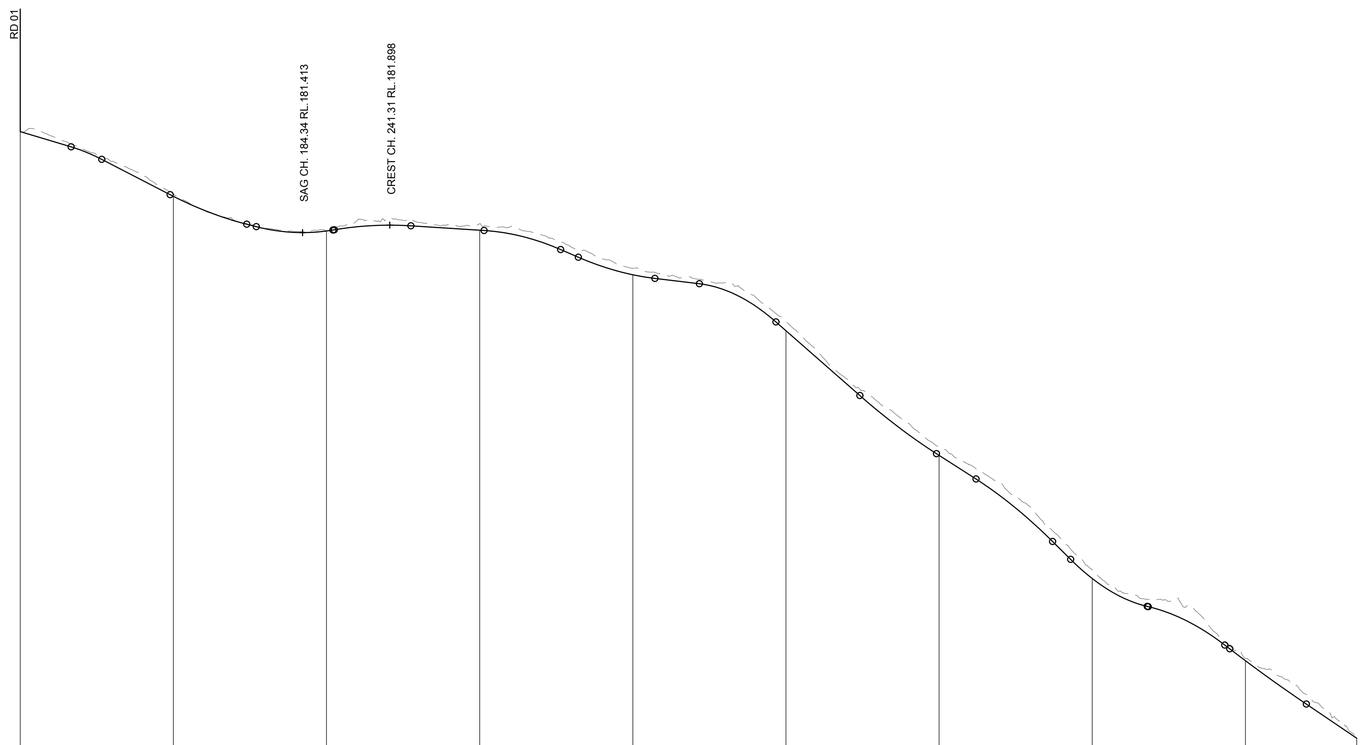
DRAWING TITLE: ROAD 09 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0354	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:10 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R10m, R-80m, R-100m, R-80m, R100m, R100m, R30m, R30m, R-120m, R-100m, R-550m, R-550m, R-100m, R-80m, R200m

VERTICAL GEOMETRY GRADE (%)	-3%	-5.16%	-2.56%	1.68%	-0.64%	-4.34%	-1.2%	-8.77%	-6.41%	-9.91%	-2.36%	-7.66%	-6.77%		
VERTICAL GRADE LENGTH (m)	43.19m	79.68m	56.28m	50.91m	97.78m	61.58m	79.01m	104.83m	75.81m	61.79m	50.66m	53.24m	57.92m		
VERTICAL CURVE LENGTH (m)	L 20	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50	L 50		
VERTICAL CURVE RADIUS (m)	R 926.36	R 1921.64	R 1180.64	R 2160.22	R 1351.97	R 1594.43	R 660.68	R 2122.07	R 1429.81	R 662.79	R 943.89	R 5618.69			

DATUM R.L.137.0

CUT (-)/FILL DEPTH	0.025	-0.153	-0.049	-0.424	-0.418	-0.611	-0.533	-0.537	-0.143	0.000					
DESIGN SURFACE	188.005	183.780	181.516	181.568	178.660	175.006	166.869	158.828	153.464	148.402					
EXISTING SURFACE	187.981	183.933	181.566	181.992	179.077	175.617	167.402	159.364	153.607	148.402					
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	872.68					

SCALE HZ 1:2000, VT 1:200

RD 10 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

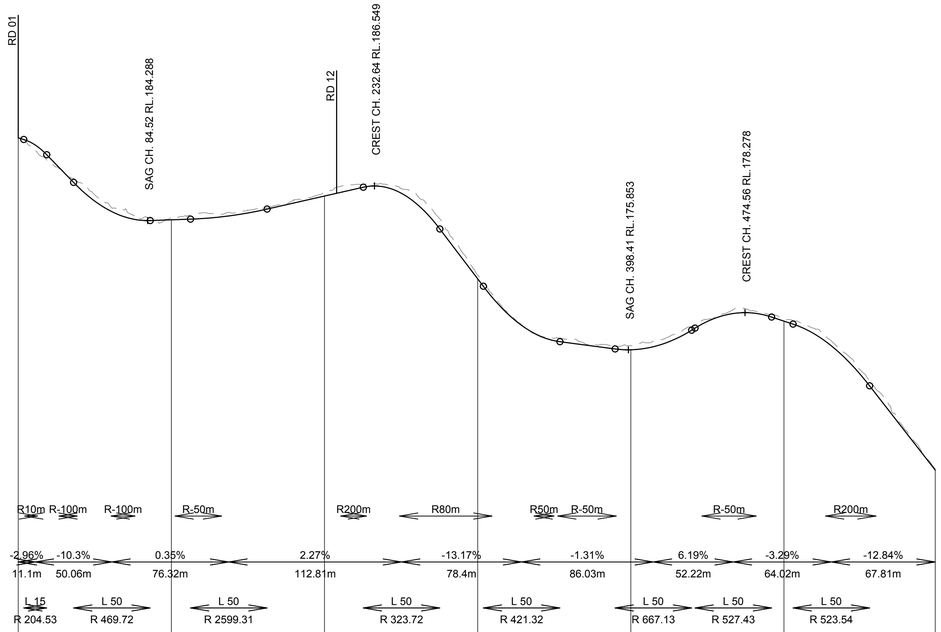
DRAWING TITLE: ROAD 10 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0355	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:15 PM

100mm AT ORIGINAL SIZE

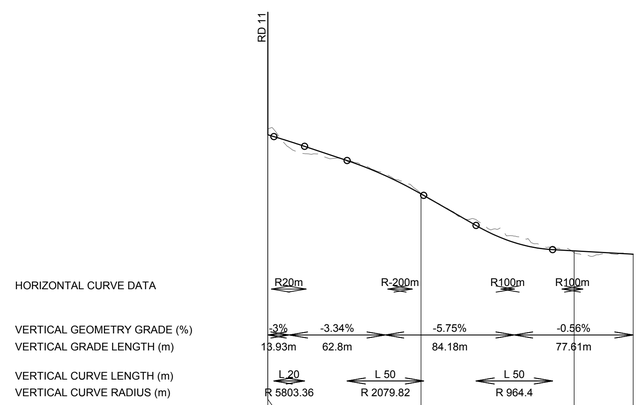


DATUM R.L.156.0

CUT (-)/FILL DEPTH	0.011	-0.155	-0.194	-0.241	-0.265	-0.095		
DESIGN SURFACE	189.686	184.339	185.891	180.484	175.855	177.726		168.000
EXISTING SURFACE	189.675	184.494	186.085	180.725	176.119	177.821		
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00		598.75

SCALE HZ 1:2000,VT 1:200

RD 11 LONGITUDINAL SECTION



DATUM R.L.167.0

CUT (-)/FILL DEPTH	-0.404	-0.029	0.127	0.000
DESIGN SURFACE	186.070 186.070	182.213	178.492	178.275
EXISTING SURFACE	186.474	182.243	178.365	178.275
CHAINAGE	-0.00 0.00	100.00	200.00	238.52

SCALE HZ 1:2000,VT 1:200

RD 12 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

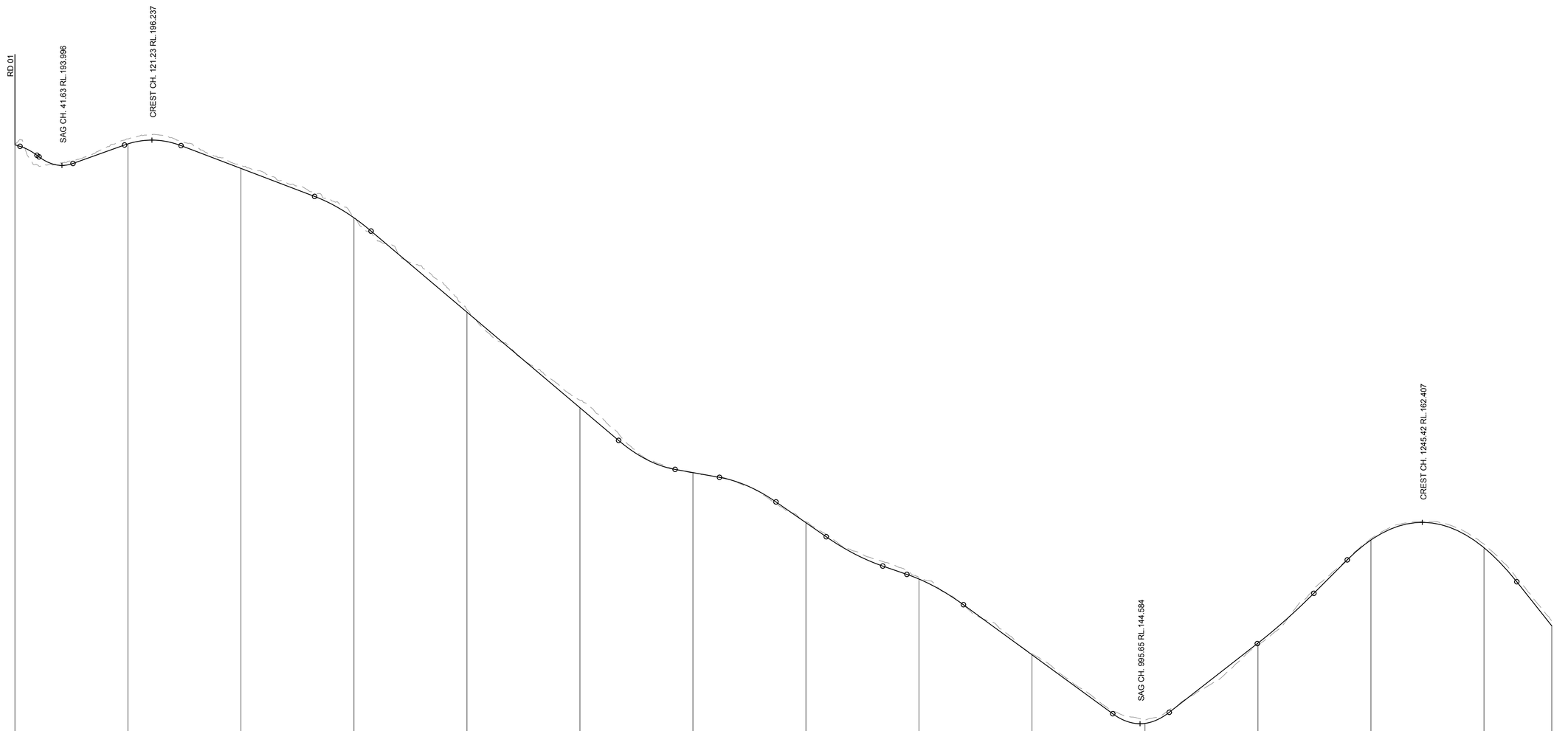
DRAWING TITLE: ROADS 11 & 12 LONGITUDINAL SECTIONS

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0356	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:20 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R-20m	R50m		R-200m		R50m		R-70m		R50m		R50m		R-100m		R-100m	R100m	R-100m	R100m		R100m	R-100m	R100m	R-100m	R100m
VERTICAL GEOMETRY GRADE (%)	-3.04%	-7.48%		3.58%		-3.8%				-8.46%			-1.79%		-6.93%		-3.44%		-7.3%		7.8%		10%		-12.59%
VERTICAL GRADE LENGTH (m)		11.98m	24.36m	85.66m		168.14m				269.03m			89.27m		94.48m		71.4m		182.15m		127.94m		129.58m		177.49m
VERTICAL CURVE LENGTH (m)		L 15	L 30		L 50			L 50				L 50		L 50		L 50		L 50		L 50		L 50		L 150	
VERTICAL CURVE RADIUS (m)		R 337.63	R 271.34		R 677.35			R 1073.77				R 749.57		R 973.55		R 1435.59		R 1295.66		R 331.01		R 2273.02		R 664.01	

DATUM R.L.132.0

CUT (-)/FILL DEPTH		-0.425		-0.212		-0.196		-0.223		-0.688		0.014		-0.104		-0.151		-0.101		-0.282		0.160		-0.125		-0.314		-0.441
DESIGN SURFACE	195.819	195.904		193.731		189.361		181.008		172.547		166.810		162.372		157.391		150.686		144.613		151.720		160.854		160.164		153.245
EXISTING SURFACE		196.329		193.943		189.557		181.231		173.215		166.796		162.477		157.541		150.787		144.895		151.560		160.979		160.478		153.686
CHAINAGE	-0.00	100.00		200.00		300.00		400.00		500.00		600.00		700.00		800.00		900.00		1000.00		1100.00		1200.00		1300.00		1360.00

SCALE HZ 1:2000, VT 1:200

RD 13 LONGITUDINAL SECTION

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REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

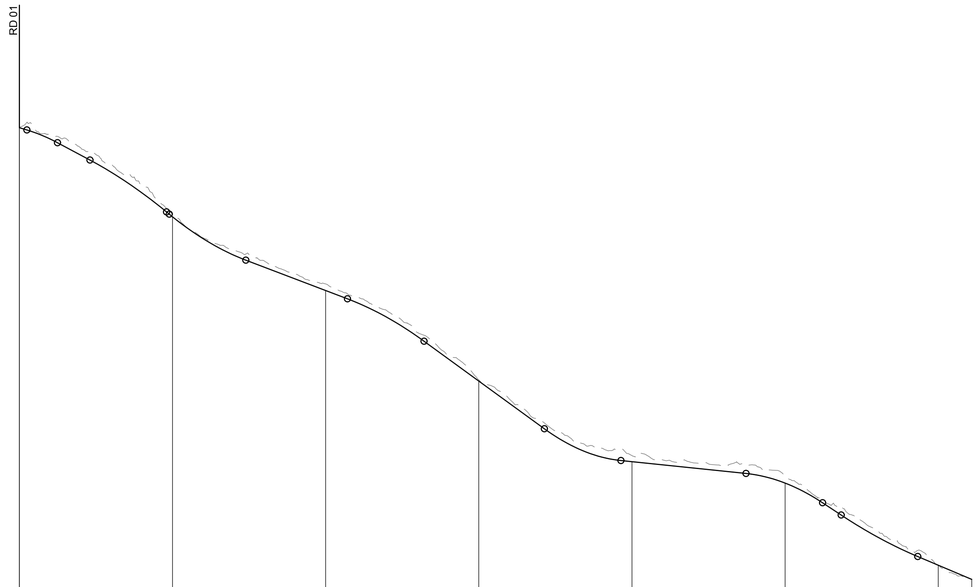
DRAWING TITLE: ROADS 13 & 14 LONGITUDINAL SECTIONS
SHEET 1 OF 2

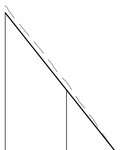
LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0357	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:26 PM

100mm AT ORIGINAL SIZE





HORIZONTAL CURVE DATA: R100m

VERTICAL GEOMETRY GRADE (%): -12.59%

VERTICAL GRADE LENGTH (m): 177.49m

VERTICAL CURVE LENGTH (m)

VERTICAL CURVE RADIUS (m)

DATUM R.L.133.0

CUT (-)/FILL DEPTH	-0.441	-0.509	0.000
DESIGN SURFACE	153.245	148.210	144.246
EXISTING SURFACE	153.686	148.719	144.246
CHAINAGE	1360.00	1400.00	1431.49

SCALE HZ 1:2000, VT 1:200

RD 13 LONGITUDINAL SECTION

HORIZONTAL CURVE DATA: R30m, R-120m, R-200m, R200m, R100m, R200m

VERTICAL GEOMETRY GRADE (%): -3%, -5.33%, -8.22%, -3.8%, -7.28%, -1.03%, -6.61%, -4.23%

VERTICAL GRADE LENGTH (m): 14.88m, 56.18m, 51.8m, 116.37m, 128.55m, 131.68m, 62.13m, 60.31m

VERTICAL CURVE LENGTH (m): L 20, L 50, L 50, L 50, L 50, L 50, L 50

VERTICAL CURVE RADIUS (m): R 858.17, R 1733.7, R 1132.3, R 1438.32, R 800.82, R 896.38, R 2099.36

DATUM R.L.152.0

CUT (-)/FILL DEPTH	-0.065	-0.158	-0.431	-0.081	-0.401	-0.462	0.012	0.000
DESIGN SURFACE	193.271	193.271	187.454	182.643	176.731	171.467	170.071	164.710	163.784
EXISTING SURFACE	193.337	187.612	183.075	176.812	171.869	170.534	164.698	163.784
CHAINAGE	-0.00	0.00	100.00	200.00	300.00	400.00	500.00	600.00	621.89

SCALE HZ 1:2000, VT 1:200

RD 14 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

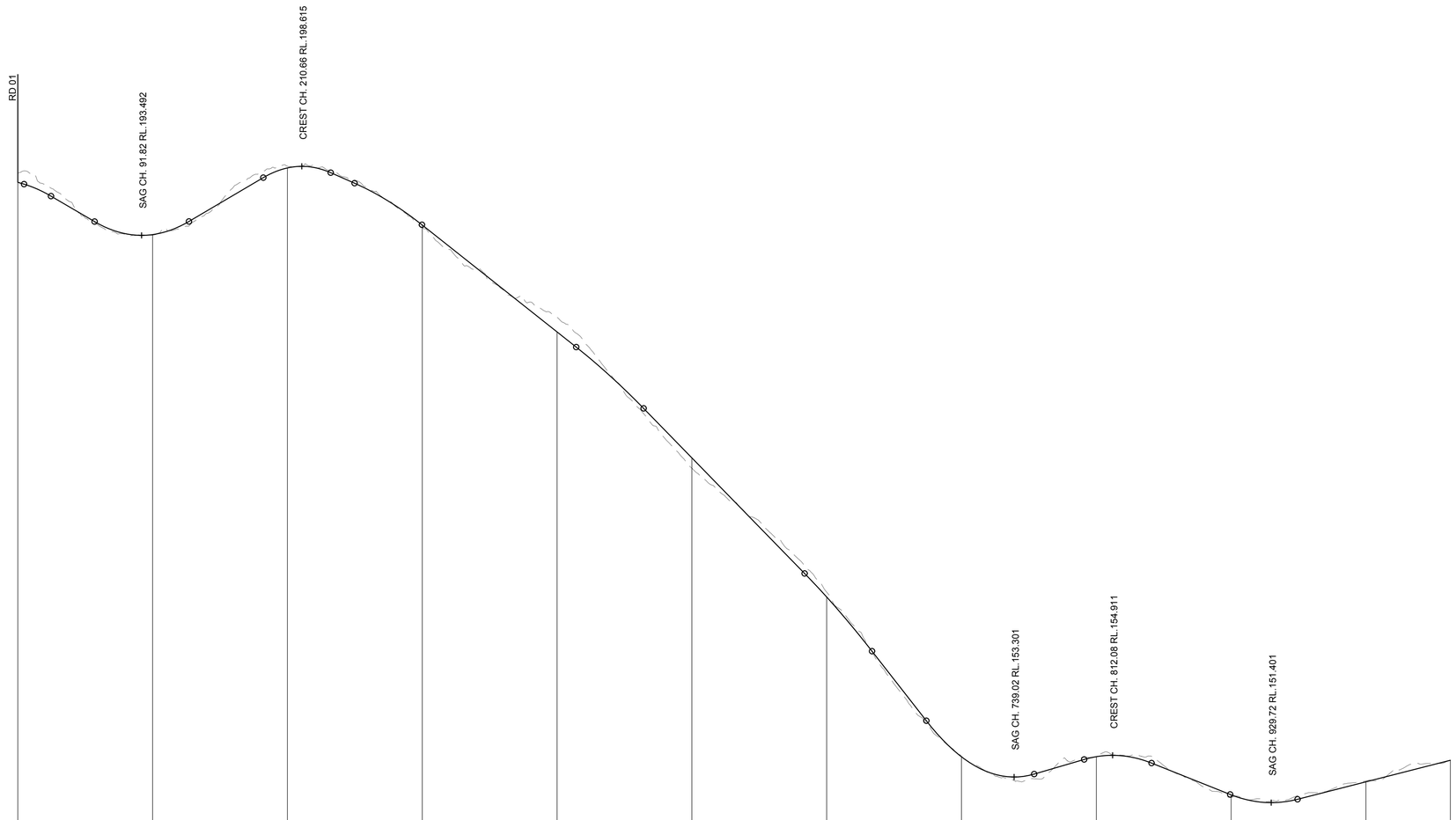
DRAWING TITLE: ROADS 13 & 14 LONGITUDINAL SECTIONS
SHEET 2 OF 2

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0358	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:31 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R100m, R-100m, R-100m, R100m, R100m, R-100m

VERTICAL GEOMETRY GRADE (%): -3%, -5.85%, 5.89%, -4.41%, -7.93%, -10.26%, -12.82%, 2.92%, -3.99%, 2.55%

VERTICAL GRADE LENGTH (m): 14.61m, 77.31m, 115.15m, 67.69m, 164.42m, 169.44m, 105.27m, 102.06m, 108.28m, 138.38m

VERTICAL CURVE LENGTH (m): L 20, L 70, L 50, L 50, L 50, L 50, L 80, L 50, L 50

VERTICAL CURVE RADIUS (m): R 700.56, R 596.08, R 485.48, R 1420.56, R 2148.6, R 1952.96, R 508.21, R 723.05, R 764.21

DATUM R.L.140.0

CUT (-)/FILL DEPTH	-0.685	0.042	-0.127	0.219	-1.083	0.768	-0.367	-0.039	-0.057	0.193	-0.072	0.000
DESIGN SURFACE	197.429	193.548	198.498	194.258	186.328	176.983	166.657	154.800	154.810	151.979	152.945	154.543
EXISTING SURFACE	198.114	193.506	198.624	194.040	187.411	176.214	167.023	154.838	154.868	151.786	153.017	154.543
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1062.61

SCALE HZ 1:2000, VT 1:200

RD 15 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
DO NOT SCALE FROM DRAWING

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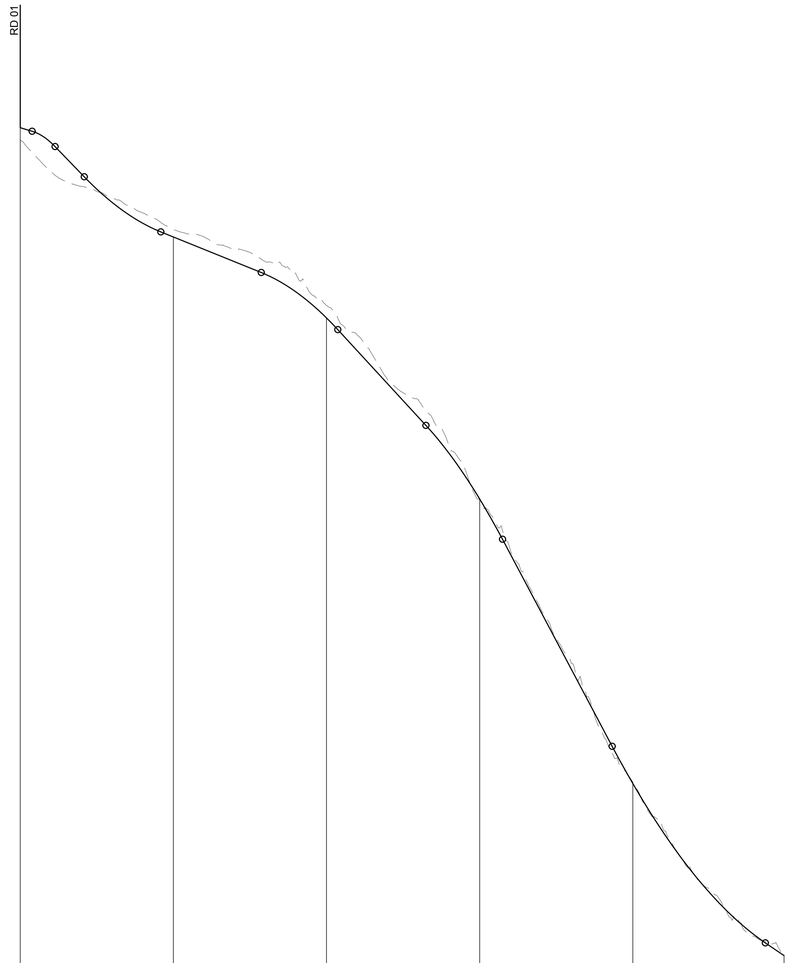
EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD
PROJECT: NIGHTCAP VILLAGE
DRAWING TITLE: ROAD 15 LONGITUDINAL SECTION
LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL
ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0359 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:35 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R100m, R-200m, R200m, R200m, R-100m, R50m, R-50m, R100m, R50m

VERTICAL GEOMETRY GRADE (%): -3%, -10.35%, -4.04%, -10.87%, -18.87%, -6.8%

VERTICAL GRADE LENGTH (m): 15.24m, 51.55m, 115.57m, 107.53m, 146.62m, 62.21m

VERTICAL CURVE LENGTH (m): L 15, L 50, L 50, L 50, L 100

VERTICAL CURVE RADIUS (m): R 204.1, R 792.96, R 732.57, R 625.02, R 828.46

DATUM R.L.135.0

CUT (-)/FILL DEPTH	0.800	-0.510	-0.810	0.040	-0.099	0.000
DESIGN SURFACE	200.168	193.032	187.747	175.929	157.347	146.118
EXISTING SURFACE	199.368	193.543	188.558	175.888	157.446	146.118
CHAINAGE	0.00	100.00	200.00	300.00	400.00	498.72

SCALE HZ 1:2000, VT 1:200

RD 16 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

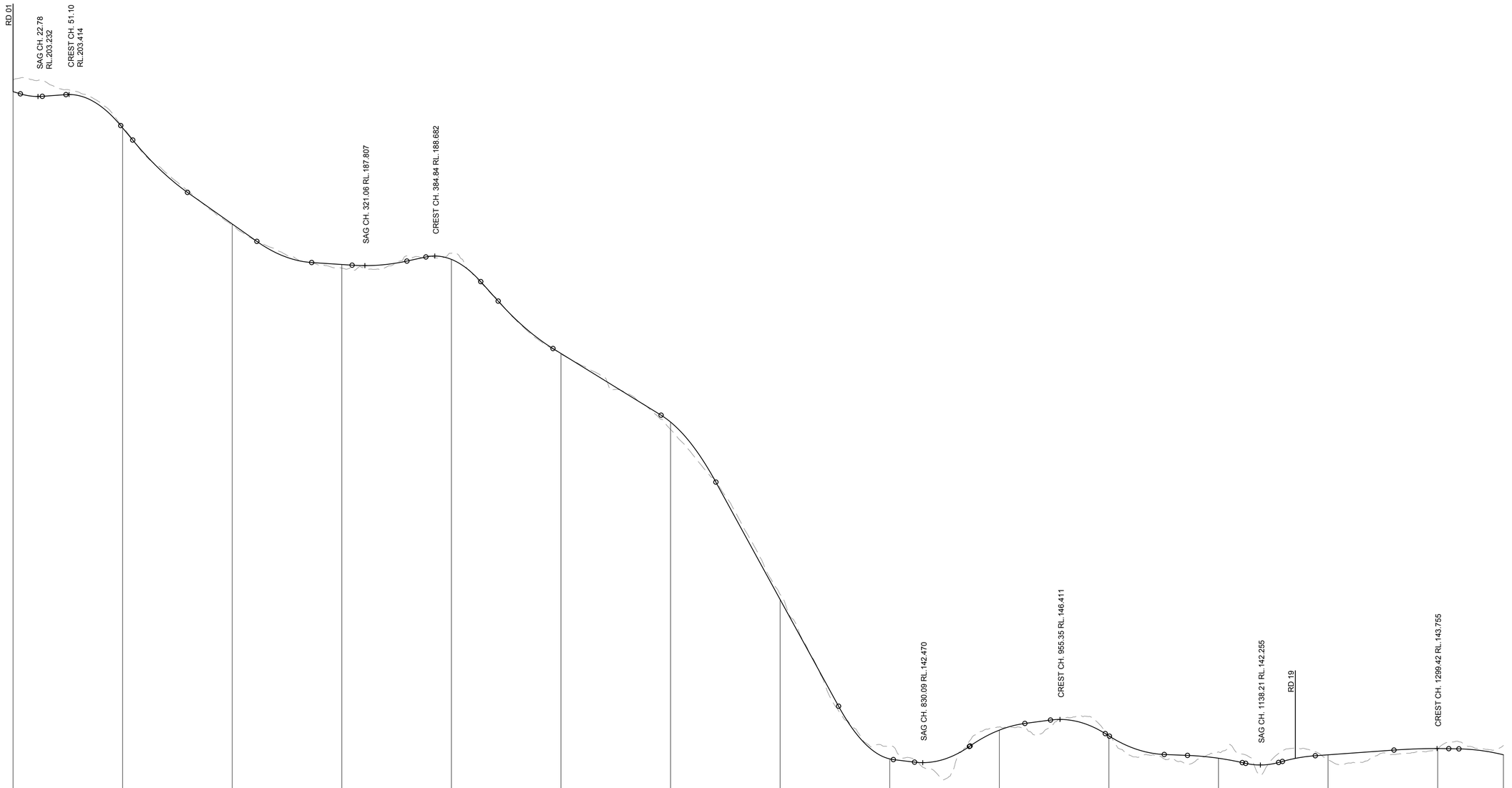
DRAWING TITLE: ROAD 16 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0360 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:40 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R100m	R-100m			R200m		R-50m	R100m		R-30m		R200m	R-50m		R30m		R-50m		R200m	R-200m		R-60m	R50m	R-50m		R100m	
VERTICAL GEOMETRY GRADE (%)	-3%	0.73%	-12.04%		-7.06%		-0.66%	2.16%	-11.15%		-6.16%		-18.26%		-1.21%	6.92%	1.32%	-6.26%		-0.4%	-2.23%	2.76%	0.72%			-0.19%	-3%
VERTICAL GRADE LENGTH (m)	16.69m	56.56m	60.93m		113.28m		86.92m	67.38m	65.93m		148.64m		161.97m		69.35m	50.66m	73.36m	53.8m		71.23m	43.12m	33.48m	111.82m			59.24m	44.51m
VERTICAL CURVE LENGTH (m)	L 20	L 50	L 50			L 50		L 50	L 50				L 50	L 50		L 50	L 50	L 50	L 50		L 50	L 30	L 30			L 50	L 50
VERTICAL CURVE RADIUS (m)	R 536.41	R 391.49	R 1003.11			R 781.16		R 1777.4	R 375.79	R 1002.24			R 413.38		R 293.39	R 614.85	R 893.02	R 659.49	R 852.56		R 2733.94	R 602.05	R 1470.13			R 5496.72	R 1784.43

DATUM R.L.129.0

CUT (-)/FILL DEPTH	-1.066	-0.114	0.137	0.336	-0.550	0.067	0.689	-0.469	-1.131	-0.294	-0.014	-0.575	0.458	0.001	-0.853
DESIGN SURFACE	203.674	200.364	191.602	187.907	188.376	179.790	173.537	157.345	142.808	145.435	144.908	142.871	143.184	143.755	143.185
EXISTING SURFACE	204.740	200.478	191.464	187.571	188.926	179.723	172.849	157.814	143.939	145.729	144.922	143.446	142.726	143.754	144.037
CHAINAGE	-0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1100.00	1200.00	1300.00	1360.00

SCALE HZ 1:2000, VT 1:200

RD 17 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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EMAIL: administration@planitconsulting.com.au

CLIENT:
NCV ENTERPRISES PTY LTD

LOCAL GOVERNMENT AUTHORITY:
TWEED SHIRE COUNCIL

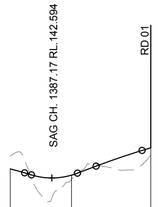
PROJECT:
NIGHTCAP VILLAGE

DRAWING TITLE:
ROAD 17 LONGITUDINAL SECTION
SHEET 1 OF 2

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0361	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:46 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R20m, R-15m

VERTICAL GEOMETRY GRADE (%): -3%, 3.76%, 3.07%

VERTICAL GRADE LENGTH (m): 44.51m, 42.21m, 20.72m

VERTICAL CURVE LENGTH (m): L 50, L 30, L 30

VERTICAL CURVE RADIUS (m): R 1784.43, R 4444.21, R 4348.02

DATUM R.L.130.0

CUT (-)/FILL DEPTH	-0.853	0.281	
DESIGN SURFACE	143.185	142.780	144.566
EXISTING SURFACE	144.037	142.499	
CHAINAGE	1360.00	1400.00	1451.78

SCALE HZ 1:2000, VT 1:200

RD 17 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

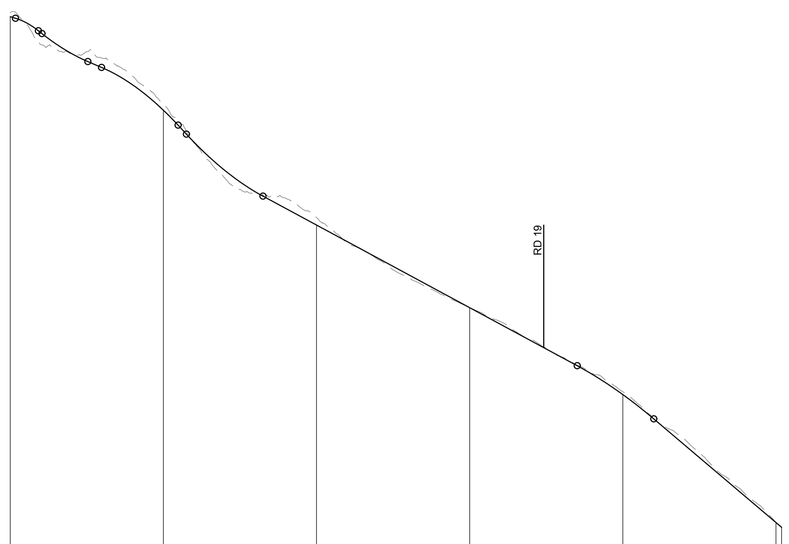
DRAWING TITLE: ROAD 17 LONGITUDINAL SECTION
SHEET 2 OF 2

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0362	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:50 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-30m, R100m, R50m, R-30m, R50m, R50m, R-50m, R-100m

VERTICAL GEOMETRY GRADE (%): -3%, -7.91%, -4.28%, -10.8%, -5.4%, -8.48%

VERTICAL GRADE LENGTH (m): 10.87m, 14.8m, 48.91m, 55.43m, 255.18m, 108.47m

VERTICAL CURVE LENGTH (m): L 15, L 30, L 50, L 50, L 50

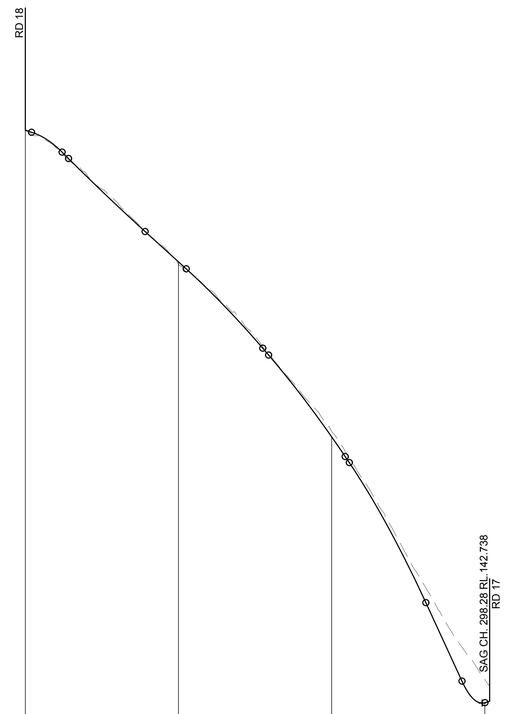
VERTICAL CURVE RADIUS (m): R 305.36, R 825.34, R 766.43, R 924.9, R 1620.25

DATUM R.L.157.0

CUT (-)/FILL DEPTH	-0.255	-0.360	-0.493	-0.029	-0.187	-0.007	0.000
DESIGN SURFACE	201.733	195.628	188.129	182.733	177.064	168.708	168.397
EXISTING SURFACE	201.988	195.988	188.622	182.762	177.251	168.716	168.397
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	503.67

SCALE HZ 1:2000, VT 1:200

RD 18 LONGITUDINAL SECTION



HORIZONTAL CURVE DATA: R30m, R100m, R-100m

VERTICAL GEOMETRY GRADE (%): -3%, -9.98%, -9.08%, -11.66%, -14.84%, -21.73%, -3%

VERTICAL GRADE LENGTH (m): 14.01m, 39.18m, 76.81m, 53.83m, 52.68m, 56.09m, 10.6m

VERTICAL CURVE LENGTH (m): L 20, L 50, L 50, L 50, L 50, L 15

VERTICAL CURVE RADIUS (m): R 286.64, R 5579.58, R 1942.19, R 1568.35, R 726.5, R 60.66

DATUM R.L.131.0

CUT (-)/FILL DEPTH	-0.049	0.152	-0.364	-1.520
DESIGN SURFACE	180.124	171.544	160.121	142.763
EXISTING SURFACE	180.173	171.392	160.485	144.283
CHAINAGE	0.00	100.00	200.00	300.00

SCALE HZ 1:2000, VT 1:200

RD 19 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

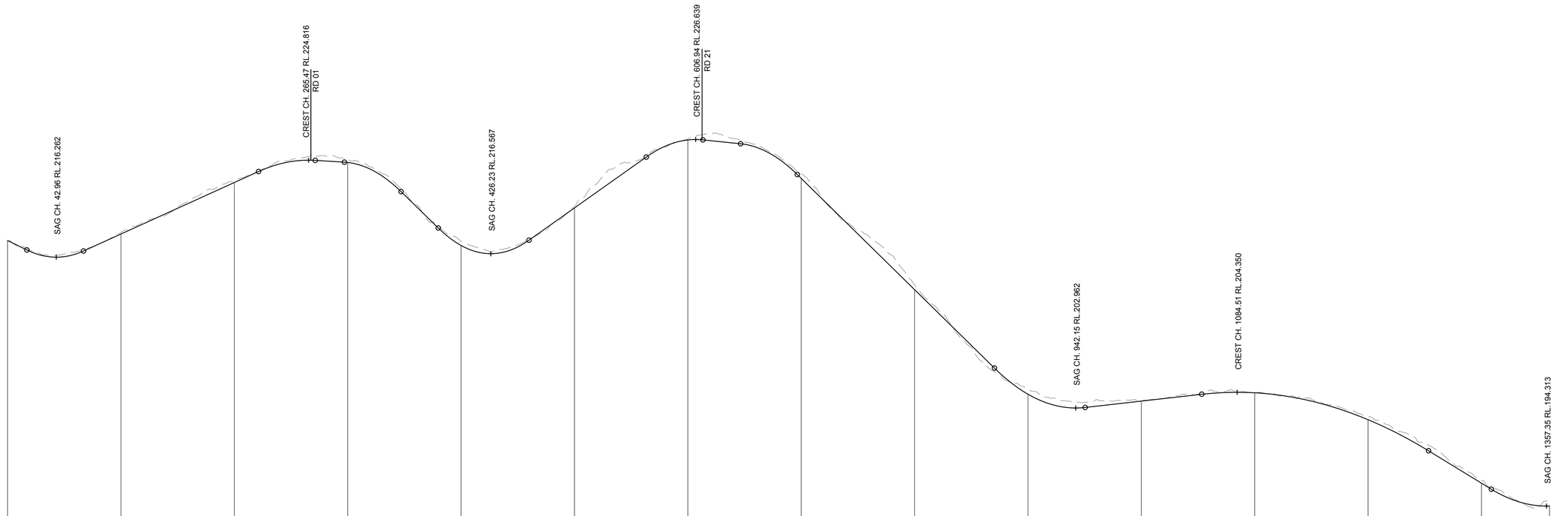
DRAWING TITLE: ROADS 18 & 19 LONGITUDINAL SECTIONS

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE: A1 | PLANIT JOB No.: J6100 | DRAWING No.: 0363 | REV: C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:21:56 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R100m		R-200m			R-100m		R200m	R-150m		R-80m	R-80m		R50m	R-200m		R200m	R-200m		R-100m		R150m	
VERTICAL GEOMETRY GRADE (%)		-4.91%		4.54%		-0.61%		-9.78%		7.09%		-1.03%		-9.82%			1.13%			-6.11%		-6.45%	
VERTICAL GRADE LENGTH (m)		41.97m		204.4m		75.68m		97.79m		168.42m		83.24m		238.91m			242.86m			205.43m		284.73m	
VERTICAL CURVE LENGTH (m)		L 50			L 50		L 50		L 80		L 50		L 50		L 80			L 200			L 100		
VERTICAL CURVE RADIUS (m)		R 529.02			R 971.41		R 544.97		R 474.14		R 615.93		R 568.96		R 730.74			R 2759.94			R 795.56		

DATUM R.L.183.0

CUT (-)/FILL DEPTH	0.000	-0.128	-0.167	-0.272	-0.358	-0.128	-0.091	-0.438	-0.415	-0.458	-0.042	-0.085	-0.270	-0.202	-0.470
DESIGN SURFACE	217.734	218.306	222.845	224.616	217.293	220.606	226.600	223.211	213.395	204.178	203.570	204.306	201.933	196.332	194.317
EXISTING SURFACE	217.734	218.434	223.012	224.889	217.651	220.734	226.691	223.649	213.810	204.636	203.612	204.391	202.203	196.534	194.787
CHAINAGE	0.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1100.00	1200.00	1300.00	1360.00

SCALE HZ 1:2000, VT 1:200

RD 20 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

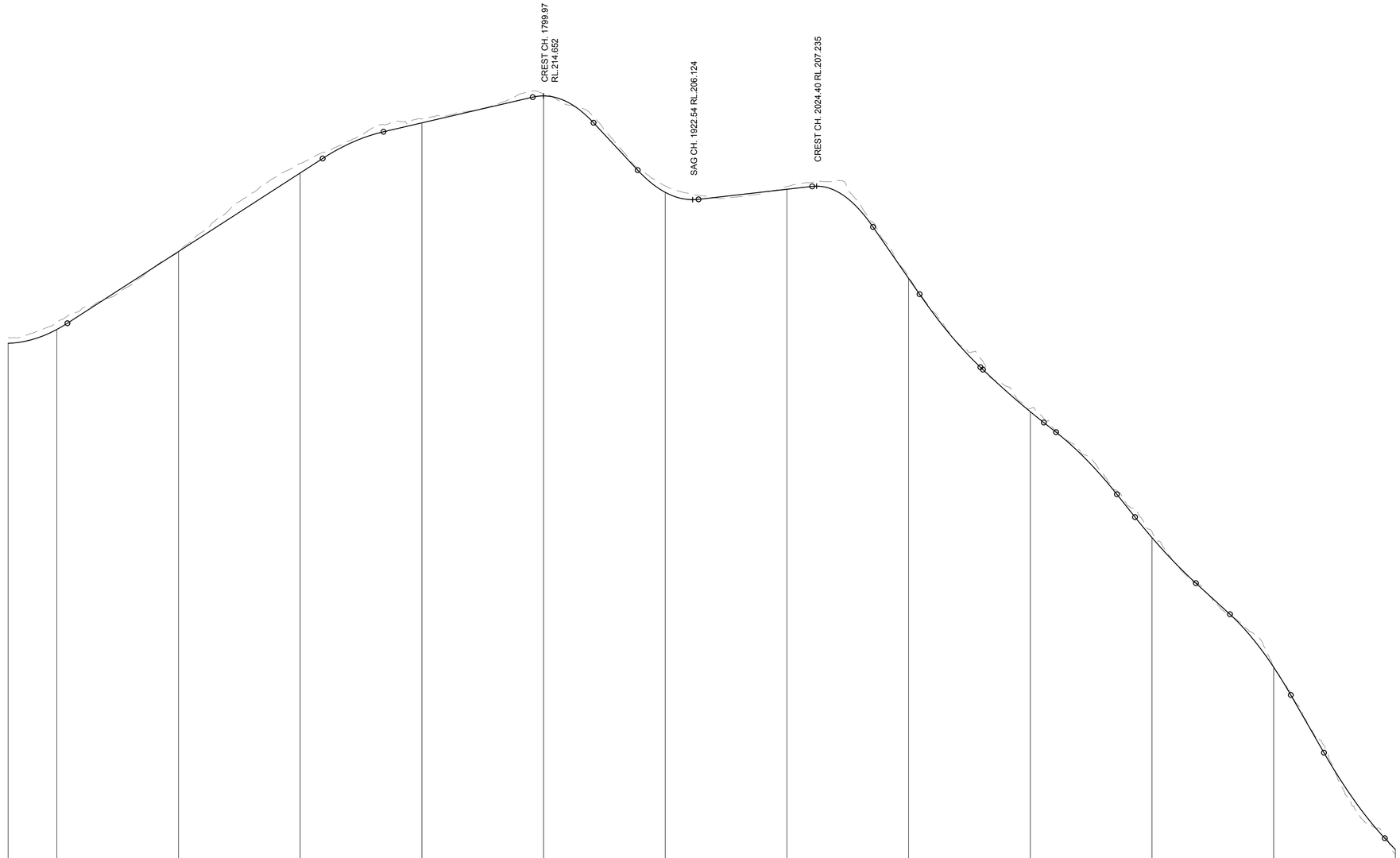
DRAWING TITLE: ROAD 20 LONGITUDINAL SECTION
SHEET 1 OF 3

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0364	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:22:01 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA		R150m				R-150m				R100m					R30m	R-100m	R-200m		R100m			R-50m	R100m		R50m	
VERTICAL GEOMETRY GRADE (%)			6.45%					2.32%			-10.74%			1.14%		-14.45%		-9.54%	-7.85%		-12.57%	-9.14%		-17.39%		-10.75%
VERTICAL GRADE LENGTH (m)				284.73m					172.65m			86.26m			143.42m		88.25m		52.11m	60.07m		64.89m	78.03m		77.24m		114.88m
VERTICAL CURVE LENGTH (m)		L 100				L 50				L 50			L 50			L 50		L 50	L 50	L 50		L 50	L 50		L 50	
VERTICAL CURVE RADIUS (m)		R 795.56				R 1209.67				R 382.85			R 421.01			R 320.69		R 1017.91	R 2961.94	R 1059.54		R 1455.03	R 605.82		R 752.87	
CUT (-)/FILL DEPTH	-0.470	-0.615		0.034		-0.783		-0.322		-0.162		-0.531		-0.231		-0.151		-0.262		-0.488			-0.049		0.393	
DESIGN SURFACE	194.317	195.456		201.863		208.318		212.435		214.652		206.728		206.979		199.658		188.702		178.355			167.708		152.719	
EXISTING SURFACE	194.787	196.071		201.830		209.101		212.757		214.814		207.259		207.209		199.809		188.964		178.843			167.757		152.325	
CHAINAGE	1360.00	1400.00		1500.00		1600.00		1700.00		1800.00		1900.00		2000.00		2100.00		2200.00		2300.00			2400.00		2500.00	

DATUM R.L.141.0

SCALE HZ 1:2000, VT 1:200

RD 20 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:

0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)

0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

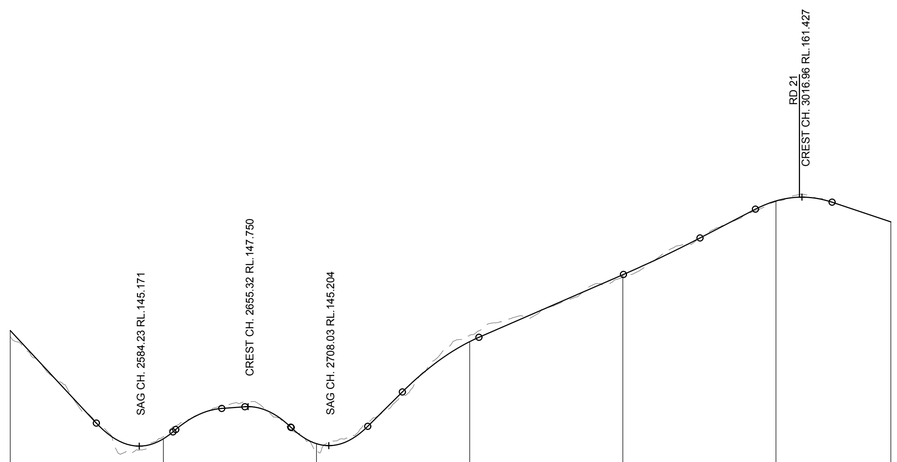
DRAWING TITLE: ROAD 20 LONGITUDINAL SECTION SHEET 2 OF 3

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0365	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:22:06 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R50m | R-50m | R50m | R-40m | R-200m | R-30m

VERTICAL GEOMETRY GRADE (%): -10.75% | 8.43% | 0.74% | -9.61% | 9.92% | 4.35% | 5.19% | -3.35%

VERTICAL GRADE LENGTH (m): 114.88m | 41.85m | 45.12m | 40.24m | 72.62m | 144.35m | 86.21m | 63.4m

VERTICAL CURVE LENGTH (m): L 50 | L 30 | L 30 | L 50 | L 50 | L 50 | L 50

VERTICAL CURVE RADIUS (m): R 260.65 | R 389.66 | R 289.84 | R 255.92 | R 896.88 | R 5967.17 | R 585.44

DATUM R.L.132.0

CUT (-)/FILL DEPTH	0.393	-0.138	0.574	-0.404	0.183	0.043		
DESIGN SURFACE	152.719	145.648	145.330	151.993	156.361	161.181	159.810	
EXISTING SURFACE	152.325	145.786	144.756	152.397	156.178	161.139		
CHAINAGE	2500.00	2600.00	2700.00	2800.00	2900.00	3000.00	3075.00	

SCALE HZ 1:2000, VT 1:200

RD 20 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
DO NOT SCALE FROM DRAWING

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DRAWN BY:
DESIGN BY:
APPROVED BY:
DATE:
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PLANIT CONSULTING
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KINGSCLIFF NSW 2487
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EMAIL: administration@planitconsulting.com.au

CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

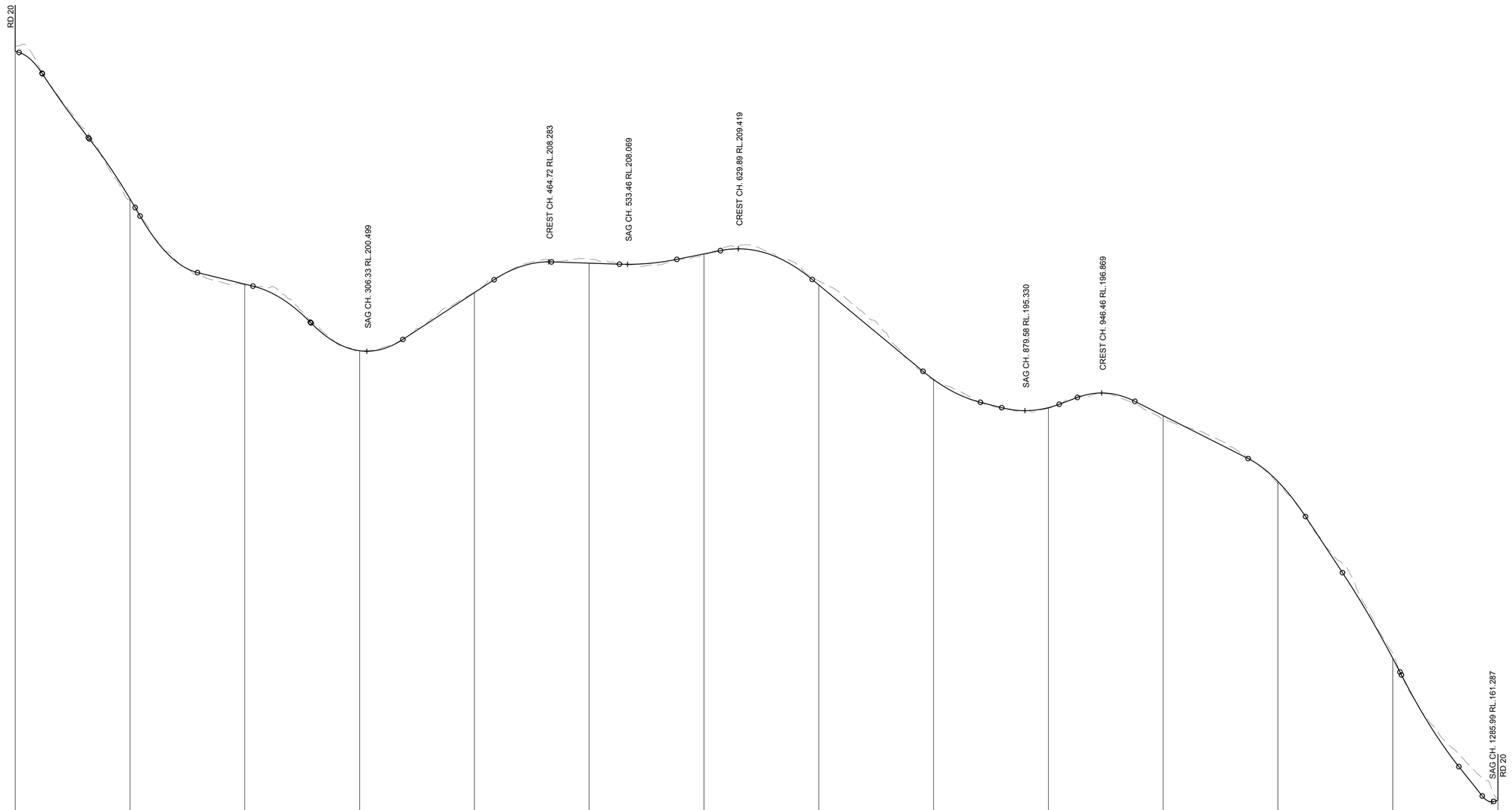
DRAWING TITLE: ROAD 20 LONGITUDINAL SECTION
SHEET 3 OF 3

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0366	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:22:10 PM

100mm AT ORIGINAL SIZE



HORIZONTAL CURVE DATA: R-30m, R200m, R100m, R-200m, R-100m, R100m, R100m, R-200m, R100m, R-100m, R200m, R-200m, R-20m

VERTICAL GEOMETRY GRADE (%): -3%, -15.13%, -12.65%, -17.25%, -2.44%, -10.14%, 6.54%, -0.33%, 2.01%, -8.29%, -2.53%, 3.72%, -5.05%, -15.15%, -19.43%, -12.5%, -3%

VERTICAL GRADE LENGTH (m): 13.37m, 30.32m, 40.84m, 49.26m, 98.29m, 65.63m, 144.45m, 109.16m, 102.96m, 161.45m, 68.61m, 65.91m, 148.68m, 82.28m, 51.3m, 50.41m, 8.64m

VERTICAL CURVE LENGTH (m): L 20, L 40, L 40, L 50, L 50, L 80, L 50, L 50, L 80, L 50, L 50, L 50, L 50, L 50, L 50, L 50, L 10

VERTICAL CURVE RADIUS (m): R 164.87, R 1612.65, R 868.95, R 337.47, R 649.25, R 479.51, R 726.79, R 2133.3, R 777.06, R 868.13, R 800.88, R 570.48, R 494.95, R 1169.34, R 722.31, R 64.5

DATUM R.L.150.0

CUT (-)/FILL DEPTH	-0.439		0.133		0.096		0.075		-0.026		-0.388		0.097		-0.336		0.067		0.068		0.323		0.210		-0.445		-0.181	
DESIGN SURFACE	226.613		213.777		206.345		200.541		205.603		208.169		208.975		206.278		198.041		195.591		194.893		189.159		173.768		161.425	
EXISTING SURFACE	227.052		213.644		206.248		200.466		205.629		208.537		208.878		206.613		197.974		195.522		194.569		188.949		174.213		161.606	161.606
CHAINAGE	-0.00		100.00		200.00		300.00		400.00		500.00		600.00		700.00		800.00		900.00		1000.00		1100.00		1200.00		1291.56	1291.62

SCALE HZ 1:2000, VT 1:200

RD 21 LONGITUDINAL SECTION

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	PRELIMINARY ISSUE	06/05/19	BT	BT	RB	BG
B	FOR APPROVAL	10/02/20	BT	BT	AW	AW
C	FOR APPROVAL	10/12/20	BT	BT	AW	AW

SCALES:
0 20 40 80 120
Full Size 1:2,000 ; Half Size 1:4,000
Scale (m)
0 2 4 8 12
Full Size 1:200 ; Half Size 1:400
Scale (m)
DO NOT SCALE FROM DRAWING

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CLIENT: NCV ENTERPRISES PTY LTD

PROJECT: NIGHTCAP VILLAGE

DRAWING TITLE: ROAD 21 LONGITUDINAL SECTION

LOCAL GOVERNMENT AUTHORITY: TWEED SHIRE COUNCIL

ORIGINAL SIZE:	PLANIT JOB No.:	DRAWING No.:	REV:
A1	J6100	0367	C

CAD FILE: T:\J6100 - NIGHTCAP DEVELOPMENT\6 - CAD\0340 ROAD 01 LONGITUDINAL SECTION - SHEET 1 OF 6.DWG PLOTTED BY: BRENDANT PLOT DATE: 10/12/2020 12:22:16 PM